

# BRIGHAM YOUNG UNIVERSITY

## *Graduate Catalog*

1951 - 52



*Herb Gandy*

**Brigham Young University Quarterly**

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# **BRIGHAM YOUNG UNIVERSITY QUARTERLY**

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## **Graduate Catalog**

**1951-52**

**Please Bring This Catalog with You  
When You Come to Register**

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Provo, Utah**

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## Calendar of Events

### Autumn Quarter

August 31—Applications for admission due.  
 October 1, 2—Monday, Tuesday, 8 a.m.—Registration for all regular students.  
     Students will register in alphabetical order to be announced.  
 October 3—Wednesday—Registration for special students. Class instruction begins.  
 October 5—Friday—Last day for registration without credit penalty.  
 October 16—Tuesday—Founder's Day (Special Founder's Day assembly).  
 October 19—Friday—Last day for withdrawal from classes.  
 November 22, 23—Thursday, Friday—Thanksgiving recess.  
 December 17, 18, 19—Monday, Tuesday, Wednesday—Examination period.  
 December 19—Wednesday—Autumn quarter closes.

### Winter Quarter

December 2—Applications for admission due.  
 January 2, 3—Wednesday, Thursday—Winter quarter registration for all regular students and personnel and English placement test for new students.  
 January 4—Friday—Registration for special students. Class instruction begins.  
 January 4—Friday—Last day for registering without credit penalty.  
 January 18—Friday—Last day for entering winter quarter classes.  
 February 8—Friday—Last day for withdrawal from classes.  
 March 12, 13, 14—Wednesday, Thursday, Friday—Examination period.  
 March 14—Friday—Winter quarter closes.

### Spring Quarter

February 17—Applications for admission due.  
 March 17, 18—Monday, Tuesday—Spring quarter registration for all regular students.  
 March 19—Wednesday—Registration for special students. Class instruction begins.  
 March 21—Friday—Last day for registering without credit penalty.  
 April 4—Friday—Last day for entering spring quarter classes.  
 April 25—Friday—Last day for withdrawal from classes.  
 May 27—Tuesday—Senior Day  
 May 28, 29, 30—Wednesday, Thursday, Friday—Examination period.  
 May 31—Saturday—Alumni Day.  
 June 1—Sunday—Baccalaureate Services.  
 June 2—Monday—Seventy-sixth Annual Commencement Exercises.

## Schedule of Final Examinations

### For Fall, Winter, and Spring Quarters

Autumn: December 17, 18, 19

Winter: March 12, 13, 14

Spring: May 28, 29, 30

For classes which are held daily, four days per week; Monday, Wednesday, and Friday; Monday and Wednesday; Monday and Friday; Wednesday and Friday; or Monday, or Wednesday, or Friday. (Examination is not more than two hours in length.

Regular Class Recitation Hour	Examination Period	
7:45 a.m. classes	2nd Day	7:45--9:40 a.m.
8:50 a.m. classes	3rd Day	7:45--9:40 a.m.
9:55 a.m. classes	1st Day	9:55-11:50 a.m.
11:00 a.m. classes	2nd Day	9:55-11:50 a.m.
12:00 noon classes	1st Day	1:00--2:55 p.m.
1:00 p.m. classes	2nd Day	1:00--2:55 p.m.
2:05 p.m. classes	3rd Day	9:55-11:50 a.m.
3:10 p.m. classes	1st Day	7:45--9:40 a.m.
4:10 p.m. classes	3rd Day	1:00--2:55 p.m.
5:10 p.m. classes	1st Day	1:00--2:55 p.m.

For classes which are held on Tuesday and Thursday; or Tuesday; or Thursday. (Examination is not more than one hour in length.)

Regular Class Recitation Hour	Examination Period	
7:45 a.m. classes	2nd Day	3:10--4:00 p.m.
8:50 a.m. classes	3rd Day	3:10--4:00 p.m.
9:55 a.m. classes	1st Day	3:10--4:00 p.m.
12:00 noon classes	2nd Day	12:00 noon
1:00 p.m. classes	1st Day	4:10--5:05 p.m.
2:05 p.m. classes	3rd Day	4:10--5:05 p.m.
3:10 p.m. classes	1st Day	5:05--5:55 p.m.
4:10 p.m. classes	3rd Day	5:05--5:55 p.m.
5:10 p.m. classes	2nd Day	5:05--5:55 p.m.

## General Administrative Officers

### THE BOARD OF TRUSTEES OF THE BRIGHAM YOUNG UNIVERSITY

DAVID O. MCKAY .....	President
STEPHEN L. RICHARDS .....	First Vice-President
J. REUBEN CLARK, JR. .....	Second vice-President
JOSEPH FIELDING SMITH .....	MARK E. PETERSEN
JOHN A. WIDTSOE .....	MATTHEW COWLEY
JOSEPH F. MERRILL .....	HENRY D. MOYLE
ALBERT E. BOWEN .....	DELBERT L. STAPLEY
HAROLD B. LEE .....	FRANKLIN L. WEST
SPENCER W. KIMBALL .....	ADAM S. BENNION
EZRA TAFT BENSON .....	
KIEFER B. SAULS .....	Secretary-Treasurer

### EXECUTIVE COMMITTEE OF B.Y.U.

JOSEPH FIELDING SMITH
STEPHEN L. RICHARDS
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JOSEPH F. MERRILL
ALBERT E. BOWEN
ERNEST L. WILKINSON

### PRESIDENT OF THE BRIGHAM YOUNG UNIVERSITY

ERNEST L. WILKINSON

## Graduate Faculty Administrative Officers

President .....	Ernest L. Wilkinson
Dean of the Graduate School .....	Asahel D. Woodruff

## THE GENERAL COMMITTEE

Professor A. C. Lambert, at large, term expires 1951.

Professor P. A. Christensen, at large, term expires 1952.

Professor George H. Hansen, at large, term expires 1952.

Professor Joseph K. Nicholes, at large, term expires 1953.

Professor Sidney B. Sperry, Group A (Archaeology, Bible and Modern Scripture, Church History, Church Organization and Administration, Theology and Religious Philosophy), 1952.

Professor Gerrit deJong, Jr., Group B (Art, English, Modern and Classical Languages, Music, Speech), 1952.

Professor Russell Swensen, Group C (Agricultural Economics, Economics, History, Political Science, Psychology, and Sociology), 1951.

Professor Milton Marshall, Group D (Chemistry, Geology and Geography, Mathematics, Physics), 1954.

Professor Raymond Farnsworth, Group E (Agronomy, Animal Husbandry, Bacteriology, Botany, Home Economics, Horticulture and Landscape Architecture, Zoology and Entomology), 1953.

Professor H. V. Hoyt, Group F (Accounting and Business Administration, Finance and Banking, Journalism, Marketing), 1953.

Professor A. Reed Morrill, Group G (Educational Administration, Elementary Education, Health, Physical Education and Recreation, Philosophy of Education and Guidance, Secondary Education), 1953.

The Dean, Chairman *ex officio*.

The President, *ex officio*.

## COMMITTEE ON GRADUATION

Leonard W. Rice, chairman; Richard D. Poll, John H. Wing.

The Office of the Graduate School is in Room 225, Science Building. The office is open between 9 and 12, and 1 and 5. Student conferences with the Dean by appointment.

## Heads of Departments

Accounting and Business Administration .....	Harrison Val Hoyt
Agricultural Economics .....	A. Smith Pond
Agronomy .....	Thomas L. Martin
Animal Husbandry .....	Grant Richards
Archaeology .....	M. Wells Jakeman
Art .....	Bent F. Larsen
Bacteriology .....	Jay V. Beck
Bible and Modern Scripture .....	Sidney B. Sperry
Botany .....	Bertrand F. Harrison
Chemistry .....	Joseph K. Nicholes
Church History .....	Hugh Nibley
Economics .....	Elmer Miller
Education .....	Reuben D. Law
Educational Administration .....	Reuben D. Law
Elementary Education .....	A. Reed Morrill, acting
English .....	Parley A. Christensen
Finance and Banking .....	Herald R. Clark
Geology and Geography .....	George H. Hansen
History .....	Russell B. Swensen
Home Economics .....	Irene S. Barlow
Journalism .....	Oliver R. Smith
LDS Church Organization and Administration .....	
Marketing .....	Weldon J. Taylor
Mathematics .....	
Modern and Classical Languages .....	Benjamin F. Cummings
Music .....	John R. Halliday
Philosophy of Education and Guidance .....	Wesley P. Lloyd
Physical Education and Recreation .....	Charles J. Hart
Physics .....	
Political Science .....	Russell B. Swensen
Psychology .....	M. Wilford Poulsen
Secondary Education .....	A. John Clarke, acting
Sociology .....	Ariel Ballif
Speech .....	T. Earl Pardoe
Theology and Religious Philosophy .....	David Yarn
Zoology and Entomology .....	Vasco M. Tanner

## REGULATIONS GOVERNING STUDY BEYOND THE BACHELOR'S DEGREE

### Character of Graduate Work

Status as a graduate student implies a degree of maturity and responsibility such that the faculty is not called upon to inform the student of his obligations or to see that he fulfills them. The attainment of each higher degree is preceded by a series of orderly steps. Failure to take each step in its turn will automatically stop the progress of the student at that point. Failure to read the regulations of the Graduate School cannot be considered a valid excuse for not having fulfilled the requirements. The student is expected to initiate every step in his program. These steps include provision of all necessary credentials prior to consideration for admission, scheduling interviews with chairmen of departments in which he is specializing, selection of the members of the Special Committee and getting their written agreement to act, scheduling meetings of the Special Committee, inquiring about the qualifying examination, developing a research problem and getting it approved and reported to the Dean of the Graduate School at the proper time, application for approval for graduation, scheduling of the final examination, and filing of approved copies of the thesis in the proper places and at the proper times.

Graduate students should call at the Office of the Graduate School for all forms used in meeting the requirements of their programs, and see that all reports due in that office are filed by themselves, personally, on time. Questions pertaining to their work should be discussed with the Dean, the Special Committee, or the Chairman of their major or minor department. In most instances, the Special Committee will be able to advise the student on his problems.

### The Faculty

The Faculty of the Graduate School has jurisdiction over all study beyond the bachelor's degree, whether the student registers for graduate or undergraduate credit, in residence or extension, or for study not intended to be used for a higher degree. Students who hold the bachelor's degree are required to register with the Dean of the Graduate School and must obtain admission to the Graduate School through procedures described below before they will be permitted to register.

A full listing of the Faculty of the University may be found in the General Catalog. Members of the Graduate Faculty are listed, in this catalog, under the name of the De-

partment in which they have primary membership, and for whose major and minor fields they are eligible to act on the Special Committees of Graduate Students.

## ADMISSION TO THE GRADUATE SCHOOL FOR DEGREE SEEKING STUDENTS

**Applications must be submitted at least one month prior to registration day, or it is doubtful that they can be acted on in time to permit the student to register as a degree-seeking student. The alternative is to register during that quarter as a non-degree student eligible to take graduate credit, but not to count such work toward a degree at this institution.**

A regular student must have been officially admitted to the Graduate School prior to any registration intended to apply on a higher degree. Previous admission to the University as an undergraduate student does not constitute admission to the Graduate School. Admission may be obtained as follows: Submission to the Dean of the Graduate School of an application for admission, accompanied by a transcript of credit earned prior thereto, by scores on the Graduate Record Examination, and by recommendations from three persons not related to the applicant and not members of the staff of his proposed major department, who can certify to his fitness for graduate work. The recommendations must be on forms provided by the Graduate School. These forms and credentials must be inspected by the Chairman of the Department in which the student proposes to do his major work, and have his approval, together with that of the Dean of the Graduate School and of the Admissions Committee of the University. The student must bring his official notice of acceptance to his first registration as a graduate student. Without it he cannot register. No one not so registered may be considered for a higher degree.

Applicants are required to submit with their applications scores obtained from the Graduate Record Examination. These examinations are administered in Utah and elsewhere four times yearly, in February, May, August and October. For information on dates, registration, and costs, write to Educational Testing Service, Box 9896, Los Feliz Station, Los Angeles 27, California. Those in states East of Colorado should write to Educational Testing Service, P. O. Box 592, Princeton, New Jersey. Application forms may also be had from the Counseling Office in the Maeser building. Applica-

tions must be made three or more weeks prior to the date of the examination. Students who do not take the test in time for use with application, can be admitted only on a tentative or a non-degree basis. In general, applicants are expected to take all three parts of the examination, selecting the advanced test nearest to their anticipated graduate major field. However, those planning to major in Agronomy, Animal Husbandry, Archaeology, Bacteriology, Journalism, Speech, Zoology and Entomology, need take only the aptitude and profile tests, unless they wish to select an advanced test in which they feel able to do reasonably well.

#### FOR NON DEGREE SEEKING STUDENTS

Students who hold the bachelor's degree, but who have no intention of seeking an advanced degree at this institution, may register for either undergraduate or graduate credit with the Dean of the Graduate School as do all other graduate students, except that they need not furnish recommendations, or scores on the Graduate Record Examination, or be approved by a Department Head for admission to the Graduate School, nor do they need to choose a Special Committee. Credit earned under such conditions may not be used at this institution at a subsequent date to fulfill the requirements for a higher degree unless the student gains admission to the Graduate School in the usual way before the course in which the credit is earned has ended. This provision applies also to the accumulation of residence.

#### GRADUATE CREDIT FOR SENIORS

If, during any quarter of the senior year, a candidate for a baccalaureate degree finds it possible to complete all requirements for such a degree with a registration of fewer than sixteen quarter hours of undergraduate credit, he may register with the **Dean of the Graduate School** for graduate credit to the extent that the total registration shall not exceed sixteen quarter hours during the quarter. Written verification that all requirements have been met must be obtained from the appropriate undergraduate Dean, and presented to the Dean of the Graduate School prior to such registration. A student so registered may be credited with residence at the graduate level for a fraction of a quarter equivalent to the fraction which his graduate registration constitutes of his total registration. Students who exercise this privilege must be willing to limit their course load and employment load as do graduate students. This is the only condition under which an undergraduate student may receive **graduate** credit for a course and this registration does not constitute admission to the Graduate School. If the student intends to continue to

ward a higher degree, he should make immediate application for admission to the Graduate School. Some graduate courses may be taken by undergraduates for use in their baccalaureate programs if they obtain permission of the instructor. Such permission presupposes readiness of the student to do the work ordinarily required in the course.

## Organization

The Graduate School is a University-wide organization of departments which offer graduate courses. Such departments occupy a dual position. In certain combinations they constitute the several undergraduate colleges and in their undergraduate functions are administered by the Deans of the undergraduate colleges. Taken in total, they also constitute the Graduate School and in their graduate functions are administered by the Dean of the Graduate School and the respective department heads. These functions consist of maintenance of a curriculum of graduate courses, those which carry ONLY a number above 200, publication of all information on the graduate program, assignment of staff members to graduate courses, determination of conditions for admission to the Graduate School and of the requirements for graduate degrees, passing upon completion of all requirements for graduate degrees, and, together with the respective undergraduate deans, the respective department heads, the President of the University, and the Board of Trustees, sharing in recommendations for the selection and advancement of members of the University Faculty.

The Faculty of the Graduate School consists of the President of the University, the Dean of the Graduate School, the Director of the Research Division, and all professors, associate professors, and assistant professors in the regular faculty of the University who hold the Doctor's degree, or who have been members of a graduate student's Special Committee at any time during the preceding three years, or who are teaching a recognized graduate course. Instructors may become members by majority vote of the Graduate Faculty.

The chief administrative body of the Graduate Faculty is the General Committee which consists of three groups: (A) The President of the University and the Dean of the Graduate School, ex-officio; (B) Four members of the Graduate Faculty elected by the Graduate Faculty from the Graduate School at large for staggered terms of three years; and (C) Seven members of the Graduate Faculty, one of which shall be elected from each of the following groups of Departments by those members of the Graduate Faculty within such Departments, for a term of three years, elections to

be held so as to stagger the terms of the seven members. The departmental groups follow.

- (a) Archaeology, Bible and Modern Scripture, Church History, Church Organization and Administration, Theology and Religious Philosophy.
- (b) Art, English, Modern and Classical Languages, Music, Speech.
- (c) Agricultural Economics, Economics, History, Political Science, Psychology, and Sociology.
- (d) Chemistry, Geology and Geography, Mathematics, Physics.
- (e) Agronomy, Animal Husbandry, Bacteriology, Botany, Horticulture and Landscape Architecture, Zoology and Entomology, Home Economics.
- (f) Accounting and Business Administration, Finance and Banking, Journalism, Marketing.
- (g) Educational Administration, Elementary Education, Physical Education and Recreation, Philosophy of Education and Guidance, Secondary Education.

The General Committee is empowered to act in place of the Graduate Faculty on all student petitions, and on departmental requests for approval of faculty members for use in graduate instruction and supervision.

The Special Committees of individual graduate students who are seeking higher degrees have supervision of and responsibility for the work of those students. A graduate student is responsible first to his Special Committee, then to the Chairman of his major department, and finally to the Dean of the Graduate School. He has no connection with an undergraduate college and no responsibility to an undergraduate dean. Membership on Special Committees is limited to professors, associate professors, and assistant professors in the regular faculty who hold the Master's or Doctor's degree, or who are judged by the Graduate Faculty to have a background equivalent to the Master's degree, provided that each may act only in the field of his special competence. Instructors may so act only if they are approved by the Graduate Faculty.

Graduate courses may be offered by visiting, acting, or regular members of the Faculty of Brigham Young University who hold the rank of professor, associate professor, assistant professor, or special lecturer, and who hold the Master's or Doctor's degree, or are judged by the Graduate Faculty to have a background equivalent to the Master's degree. For courses in accounting a CPA is recognized as meeting this requirement, and for courses in business law, an LL.B. is so recognized. Instructors who are similarly qualified may give graduate courses when approved by the Graduate Faculty.

## Degrees Offered and Requirements

**The Master of Arts degree** is awarded upon fulfillment of the following requirements:

1. Satisfaction of the foreign language requirement for the A.B. degree.
2. The passing of a test of ability to express ideas clearly in English. Students whose performance is not deemed satisfactory by the department are required to enroll in English 201, a non-credit course in Problems of Thesis Writing, offered especially for graduate students. The course is equivalent to two credit hours, and is calculated as part of a student's registration for that amount. Other graduate students are also invited to enroll in the course which will discuss the adopted manual for thesis writing. Those required to enroll must show progress in the course as evidenced by the final mark, which is determined by the instructor of the course and the chairman of the student's special committee jointly on the basis of work done in the course and the final examination. The course should be taken at the earliest possible time.
3. Completion of 45 or more quarter hours of credit in graduate courses, except that up to ten hours of upper division credit may be used to meet this requirement if the courses were approved by the chairman of the special committee at the time of registration for them, and if the instructor was eligible to teach graduate courses. At least 23 of the hours must be in the major field, at least 15 in a field other than the major field, at least three-fourths must have a grade of B or better, and none may have a grade of less than C. Not less than 15 hours in the major field and 10 hours in the minor field must consist of courses for which there is a systematic body of subject matter identified with a given course number, such as ordinarily constitutes a formal course. Seminars, special readings, and special problems may not be included in these totals. A maximum of nine quarter hours of graduate extension credit may be applied toward a Master of Arts degree, provided such credit has been earned through the Extension Division of this institution and was approved by the Director of the Extension Division and the Dean of the Graduate School at the time the student registered for the credit. Such credit must, however, be closely allied to the major subject. Up to fifteen hours of credit earned in residence may be transferred from another University by approval of the Special Committee and the General Committee, provided, however, that not more than fifteen hours of combined extension credit and transferred credit may be applied to fulfillment of the requirements for the

Master of Arts degree. Forms for petitioning for such transfers are available in the office of the Graduate School.

4. Three full quarters of residence in the Graduate School must be completed before graduation. See definition of residence below.
5. Up to one quarter of residence may be transferred from another University by approval of the Special Committee and the General Committee. Forms for petitioning for such transfer are available in the office of the Graduate School.
6. Completion of a satisfactory thesis based on work done in some field of investigation within the major department and showing evidence of independent research or creative work. The student should select and develop his own research topic, subject to the approval of all members of his Special Committee. The thesis topic must be on file in the office of the Graduate School not later than the end of the second quarter. **No more than two quarters of residence may be accumulated until this is done.** The first complete draft of the thesis must be in the hands of the chairman of the special committee on a date set by the student and the chairman. This should be as early as possible to avoid congestion in the reading and the typing of theses, especially in the quarters within which convocations are held. The final complete and signed, but unbound, copies of the thesis must be on file in the offices of the Graduate School and of the Chairman of the Special Committee throughout the 15 days preceding the final examination, and not later than 30 days before graduation. **Otherwise the examination may not be held as scheduled.** In the preparation of the thesis the following regulations must be followed:

(a) **A Manual for Writers of Dissertations**, by Kate Turabian, shall be used as the guide. Other manuals may be used for supplementary help where needed, but the Turabian manual shall take precedence in any case of difference.

(b) **Paper.** The first copy must be on 16 pound bond, with 100 per cent rag content, with water marked margins,  $1\frac{1}{4}$  inch on the left and 1 inch on the other margins, the grain of the paper to run the long way of the page. Other copies should be on 100 per cent rag content bond paper not lighter than 13 pound, and may be without the water marked margins.

(c) **Carbon copies.** These must be made with Carter's Midnight Carbon Paper; carbons to be changed often enough for acceptable legibility.

(d) **Typing.** This must be done with standard elite or pica type, but not with both; spacing may be either 1½ or double.

(e) **Reprints.** Should the thesis be published, reprints may be substituted for the typed copies provided they are in acceptable form for binding.

(f) **Binding.** For the sake of uniformity, binding must be done by the Hiller Bindery of Salt Lake City, Students Supply Association acting as their agent.

(g) **Delivery of theses.** The student's responsibility for binding and delivery of the thesis will be completed upon submission to the Graduate Dean of a receipt from the Students Supply Association indicating delivery to them of the original and first and second carbon copies identified as such in pencil on the title page, ready for binding, and payment of the binding fee.

(h) **Abstracts.** Each candidate is required to furnish abstracts of his Master's thesis, one abstract to accompany each copy of the thesis. The abstract is to have a maximum word limitation of 1400 words, and should be bound with the thesis, following the bibliography.

7. Securing of approval for graduation, and of permission to schedule the final examination. At the time of registering for courses which will complete all credit requirements for the degree, the student must file with the Dean on a form provided by him, a request for such approval. The examination should not be scheduled until this approval is obtained. Forms for scheduling the examination are available in the office of the Graduate School. **It is the duty of the student to schedule the final examination after obtaining the names of the examining committee from the chairman of his major department.**
8. The passing of a final oral examination not less than fifteen days prior to graduation. This examination is to be conducted by a committee of five voting members, to be made up of the members of the Special Committee, plus others appointed by the Chairman of the Major Department to bring the total up to five. The Chairman of the Special Committee is in charge of the examination. Four affirmative votes are needed to pass. Other members of the Graduate Faculty may attend the examination and enter the discussion, but they may not vote.
9. Completion of all requirements within a five year period, except by special permission of the General Committee of the Graduate School. This regulation became effective in all cases beginning with the school year 1948-49.

10. All candidates who present less than one and one-half quarters of residence earned in full-time residence, or whose programs have extended beyond a period of four years, are required to pass a written comprehensive examination of from 6 to 8 hours on their fields of specialization. The examination is prepared and administered by the regular examination committee.

**The Master of Science degree** is awarded upon fulfillment of requirements 2 to 10 listed above.

**The Master of Education degree** is awarded upon fulfillment of the following requirements:

1. Acceptance in the Graduate School as a major in educational administration, elementary education, personnel and guidance, philosophy of education, physical education, or secondary education.
2. Completion of requirement number 2 under the Master of Arts degree.
3. Completion of 45 or more quarter hours of credit in graduate courses, plus the field project. Up to ten hours of upper division credit may be used to meet this requirement if the courses were approved by the chairman of the Special Committee at the time of registration, and if the instructor was eligible to teach a graduate course. At least 23 of the hours must be in the major field, at least 15 in a minor field, at least three-fourths must have a grade of B or better, and none may have a grade of less than C. Not less than 15 hours in the major field and 10 hours in the minor field must consist of courses for which there is a systematic body of subject matter identified with a given course number, such as ordinarily constitutes a formal course. Seminars, special readings, and special problems may not be included in these totals. A maximum of 12 quarter hours of graduate extension credit may be applied to the degree, provided such credit has been earned through the Extension Division of this institution and was approved by the Chairman of the Special Committee and the Dean of the Graduate School at the time the student registered for the course. Such credit must, however, be closely allied to the major or minor subject. Up to fifteen hours of graduate credit earned in residence may be transferred from another university by approval of the Special Committee and the General Committee, provided, however, that all such transferred credit is deducted from the amount of extension credit allowed for the degree. Forms for petitioning for such transfers are available in the office of the Graduate School.

4. One and one-half quarters of residence as a full-time student must be completed before graduation. See definition of residence in the Graduate Catalog. No residence may be transferred from another institution.
5. Completion of a satisfactory field project, under registration with the chairman of the Special Committee, for not less than 4 hours of credit. The project shall be an attack on a practical problem in the field of the candidate's interest as a teacher. The problem is to be selected and developed by the student, subject to the approval of all members of his Special Committee. The topic must be filed in the office of the Graduate School at the time of registration for the project. The finished report on the project shall conform to the requirements for a thesis in matters of style, format, and manner of filing. See requirement 6 under Master of Arts degree, beginning with the fifth sentence.
6. Completion of not less than one year of experience as a teacher, preferably before beginning on the field project.
7. Securing of approval for graduation, as outlined for the Master of Arts degree.
8. The passing of the final examination as indicated for the Master of Arts degree.
9. Completion of all requirements within a five year period, except by special permission of the General Committee of the Graduate School.

### **Major and Minor Fields**

Graduate students must select their major and minor fields from among those enumerated under the name of each department in the Graduate Catalog.

### **Residence and Limitation on Credit Load**

Regular students who register for study intended to apply on a higher degree, and who serve as teaching assistants, laboratory assistants or readers, or who engage in other activity aside from their courses of study will be required to reduce their registration in proportion to the amount of non-course work in which they are engaged. For purposes of calculating such reductions a registration of 16 hours, the maximum allowed in any one quarter, will be considered equal to a work week of 48 hours. In calculating such reductions, six hours will first be deducted from the work schedule, and the formula applied to the remainder of

working time. For example: A student is employed 18 hours per week, and has registered for 6 hours of graduate credit, and 6 hours of undergraduate credit having no application to his degree. He is allowed to work 6 hours without restriction, but must be restricted on the basis of the additional 12 hours of employment. This is equivalent to 12/48 of a full load, so he may register for not more than 3/4 of a full load of courses. His maximum is thus 12 hours of credit.

Special students who register for study intended to apply on a higher degree and who are engaged in full time employment, may register for not to exceed five hours of credit per quarter, provided that they may not register for more than two courses per quarter, and may receive residence equivalent to 1/15 of a quarter for each hour of credit successfully carried. Registration in the Summer Session is limited to 8 hours per term and 16 hours for the whole session.

Residence shall be defined as registration and attendance in courses, seminars, field classes, or other types of instruction conducted on the campus of Brigham Young University during a regular quarter. A full quarter of residence is defined as full-time study on the campus, properly registered, throughout one entire quarter, with a registration of not less than six quarter hours, and with not more than six clock hours of paid employment per week. Students who serve as teaching assistants, laboratory assistants, or readers, or who engage in other activity aside from their study for more than six clock hours per week will be credited with less than a full quarter of residence during the quarter so engaged. Such reductions will be calculated in the manner used for calculating the number of hours of credit one may carry.

In the example cited above, residence is reduced as follows: Employment beyond the allowed six hours (12 hours is the penalty amount) cuts residence to 3/4 of a quarter. However, since only half of the registration is devoted to meeting requirements for the Master's degree, the student receives only half of the residence he would otherwise earn, or 3/8 of a quarter.

## The Special Committee

A Master's Committee may consist of two or more members. It is recommended that it be two rather than three or more. The representative of the major field is the chairman. The members of the committee who represent the major or minor fields shall after conference, jointly advise the student concerning fulfillment of requirements in his fields and assist the student in planning his registration so these requirements

may be met. This planning should take place at the earliest possible point in the student's program. As a result the student and each member of his committee shall have a written record of what is to be required of the student in the matter of courses, seminars, research, or any other experience essential to his graduation, throughout his entire program. The chairman of the Committee must give written approval of each registration card before it is presented to the Dean for his signature. If the Special Committee has not been set up prior to the first registration the registration card must be approved by the chairman of the major department.

After the student has selected his major and minor fields he must select at least one eligible member of the faculty to represent each field and to serve as a member of his Special Committee. The names of those eligible to serve are listed under the names of the departments in connection with the courses of instruction. The selection should be made after consultation with the chairmen of the departments in which the major and minor fields lie. The names of the committee members selected must be reported to the Dean of the Graduate School, and their signatures must be obtained by the candidate on a form provided for the purpose within five weeks of the date of the first registration as a graduate student.

At the end of each quarter the Special Committee will report to the Dean of the Graduate School on forms provided for the purpose whether the work of the student has been satisfactory during the quarter, and recommend whether the student shall receive residence credit for the quarter. No residence may be credited to the student on work deemed unsatisfactory by a majority of the Special Committee or by the Chairman of the Special Committee. The record of residence in the Graduate School office shall be regarded as official.

A student may change the membership of his Special Committee with the approval of all members of the newly constituted committee and subject to the approval of the Dean of the Graduate School, but after such a change he must plan his program anew with the new members of his committee as he did with the original committee.

### Admission to Candidacy

A graduate student who has been in residence one quarter or more, who has passed a qualifying examination, whose thesis subject has been approved, and who has given evidence of ability to do work of a graduate character may on the recommendation of his Special Committee be admitted to

candidacy for a higher degree. No more than two quarters of residence may be earned by any student who has not been admitted to candidacy for a degree.

### Summer Quarter

It is the policy of Brigham Young University to make the summer session one of the regular quarters of the school year. A large corps of teachers, supplemented by well known educators from other institutions, offers a wide range of subjects from each of the departments of the school.

The summer session is divided into two terms so that students may be in attendance only part of the summer, if they desire, without hindrance to the completion of their courses. Graduate students may register for not to exceed eight credit hours per term.

### University Fees

(All fees are payable in advance)

#### Regular College and Graduate Students:

	Autumn	Winter	Spring	Total
Tuition . . . . .	25.00	25.00	25.00	75.00
General service and student activity fees . . . . .	20.00	20.00	20.00	60.00
Total . . . . .	45.00	45.00	45.00	135.00

#### Special College and Graduate Students:

	Tuition	General *Service	Total
Minimum Fee . . . . .	\$ 5.00	\$ 2.00	\$ 7.00
Two credit hours . . . . .	6.00	3.00	9.00
Three credit hours . . . . .	9.00	4.00	13.00
Four credit hours . . . . .	12.00	5.00	17.00
Five credit hours . . . . .	15.00	6.00	21.00
Six credit hours . . . . .	18.00	7.00	25.00
Seven credit hours . . . . .	21.00	8.00	29.00
Eight credit hours . . . . .	24.00	9.00	33.00
Nine credit hours . . . . .	27.00	10.00	37.00

\*This General Service Fee does not include Health Service or Student Activity privileges.

(Maximum special registration is nine credit hours.)

Special students are subject to the late registration fee.

Special students auditing courses shall pay the same tuition as students taking courses for credit.

Special students taking private work only, for credit, shall pay in addition to the instructor's fee \$3.00 per credit hour, but shall not be subject to the late registration fee or the general service fee if all the work for which they register is private.

#### Miscellaneous Fees:

Special Equivalency examinations per credit hour .. \$ 3.00  
(The maximum fee in any one subject shall not exceed \$25.00.)

Student Teaching fee (for those who elect Secondary Education 184, or Elementary Education 184) .... 5.00

Fee required by Department of Secondary Education for examinations prior to admission to student teaching (depending on tests selected) ..... 2.00 to 5.00  
Additional fee for late application ..... 2.50 to 5.00

Graduation fee ..... 10.00

Registration for graduation (for those not previously registered during the current school year.) ..... 2.50

Change of registration fee, for each change slip presented after the first week of each quarter ... 1.00  
(Veterans will be required to pay this fee personally; it cannot be billed to the Veterans Administration.)

#### Late Registration Fees:

Students who register after the officially scheduled registration days are required to pay a late registration fee of \$1.00 the first day, \$2.00 the second day and through the remainder of the first week, and 3.00 after the first week. **One is not registered until fees are paid.** (Veterans will be required to pay these fees personally; they cannot be billed to the Veterans Administration.)

#### Graduate Qualifying Test Fine:

Graduate students who do not take test at time scheduled will be charged a late fee of ..... 2.00

## Departmental Laboratory Fees

(Per class per quarter, except as otherwise indicated)

Agronomy 20, 21, 22	.....	\$ 1.00
Agronomy 101, 198, 203	.....	2.00
Agronomy 106, 293, 295, 297	.....	2.50
Agronomy 41, 107	.....	1.50
Animal Husbandry 21, 150	.....	2.00
Animal Husbandry 5, 154	.....	2.50
Animal Husbandry 155, 156	.....	1.50
Art 56, 62, 63, 156, 157, 163, 162	.....	1.00
Bacteriology 22 (Health 22)	.....	1.50
Bacteriology 160 (Health 160)	.....	2.00
Bacteriology 162, 169, 198, 297	.....	2.00
Bacteriology 183, 281, 283, 293	.....	2.50
Botany 95, 140, 245	.....	2.00
Botany 150, 158, 254	.....	5.00
Botany 155, 156, 252	.....	10.00
Chemistry 3, 7, 8, 9, 14, 15, 16, 21, 22, 31, 32, 101, 109, 123, 133, 136, 141, 142, 143, 151, 152, 153, 161, 162, 163, 181, 182, 183, 197, 211, 212, 221, 222, 223, 237, 251, 252, 265, 297	.....	3.00
Education 170	.....	2.00
Elementary Education 156, 159	.....	2.75
Geology 106, 119, 130, 160, 173, 180, 210, 274, 285	.....	5.00
Geology 118	.....	1.00
Geology 125	.....	2.00
Geology 132, 272, 275, 277	.....	10.00
Horticulture 12	.....	5.00
Industrial Arts (Drawing) 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 140, 141, 142 per quarter	.....	.50
Industrial Arts (Mechanics) 1, 4, 6, 10, 20, 21, 23, 28, 30, 31, 32, 100, 121, 123, 124, 125, 126, 127, 128 per credit hour, per quarter	.....	1.00
Industrial Arts (Engr.) 63, 64, 65, 66, 67, 68, 70, 71, 72 per quarter	.....	.50
Industrial Arts 11, 12	.....	10.00
Journalism 26, 27	.....	1.50
Musical Instrument rental (Music 41, 42, 43, 141, 142, 143, 144, 145, 146, Workshop or private lessons) per quarter	.....	6.00
Organ rental, per hour, per day, per quarter	.....	10.00
Piano rental, per hour, per day, per quarter	.....	4.00
Practice Room (without piano) rental, per hour, per day per quarter	.....	2.00

Physical Education, (men) 1, 2, 3, 10, 11, 12, 17, 18, 20, 24, 30, 31, 32, 33, 35, 36, 38, 39, 41, 42, 46, 51, 52, 53, 54, 56, 70, 72, 80, 81, 82, 83, 84, 85, 87, 88, 89, 120, 121	.50
Physical Education 32, 42, (Skiing)	10.00
Physical Education 60, 61, 65, (Swimming)	10.00
Physical Education 30, 40, (Golf green fee)	5.00
Physical Education 30, 40, (Golf equipment rental fee	\$1.00 - 7.50
Physical Education 44, (Hiking)	5.00
Physical Education 45, (Horseback Riding)	20.00
Physical Education 24, 53, 55	5.00
Physical Education 66, (Canoeing)	7.50
Physical Education 170, 172	2.00
Physical Education 133	2.00
Physical Education 154	2.00
Physics 26, 187, 188, 189	1.50
Recreation 1, 6, 28, 30, 31, 32, 100 per credit hour per quarter	1.00
Recreation 63	1.00
Recreation 10 (Bowling)	5.00
Recreation 44 (Hiking)	5.00
Recreation 45 (Horseback Riding)	20.00
Recreation 67 (Flytying)	10.00
Recreation 47	5.00
Recreation 233	3.00
Speech 4	.75
Speech 41, 43, 44, 46, 143, 144, 145, 241	2.00
Zoology 11, 170, 171, 172	1.00
Zoology 45, 165, 166, 266	2.50
Zoology 12, 13	3.00
Zoology 154, 254 per term	5.00
Zoology 191, 192, 193 per term	12.00
Zoology (Service fee required of all graduate students for research courses and thesis work	7.50

## DEPOSITS

Botany 140, 245, 260 (breakage deposit)	3.00
Physical Education (Towel check deposit)	.50
Physical Education (Padlock and locker deposit)	1.50

## Private Instruction in Music

(The following rates provide for 10 lessons per quarter)

Ballou, Richard	\$20.00
Buggert, Gustav	25.00
Cannon, Clawson	25.00
Dallin, Leon	35.00
deJong, Gerrit, Jr.	40.00

Earl, Don L.	25.00
Fitzroy, George W.	25.00
Gates, Crawford	25.00
Halliday, John R.	35.00
Hanson, William F.	25.00
Hunt, Norman	25.00
Keeler, Joseph J.	25.00
Laycock, Harold	25.00
Madsen, Florence Jepperson	35.00
Madsen, Franklin	30.00
McAllister, John W.	30.00
Neson, Elmer E.	25.00
Nelson, Elmer E. (Piano pedagogy; 4 to 6 in a group).	
each	10.00
Packard, Hannah C.	30.00
Sandberg, Lucille	25.00
Sardoni, Lawrence	30.00
Summerhays, Margaret	30.00
Wakefield, Homer	25.00
Weight, Newell	30.00

## Refunds

No refunds will be granted to students who are requested to withdraw from the University because of scholarship or any other cause.

When paying fees all students are given an official receipt by the Treasurer's Office. This receipt and the Activity card must be presented when requesting a refund.

### College Students:

In the event of withdrawal by either a regular or special student, a refund will be made on the basis of a per day charge of five per cent of the total fees paid for the quarter. The days charged for will be the school days beginning with the first day of the quarter on which classes were held to the day on which the student reported his withdrawal to the Office of the Dean of Students, both days inclusive, with a minimum charge for any registration of \$5.00

## Special Services

The Division of Special Services is responsible for the welfare of students in the following areas of university life; Admission and Credits, Athletics, Attendance and Scholarship, Awards, Housing and Dormitories, Health Services, Orientation, The Counseling Service, Petitions, Public Services, Scholarships, Student Organizations and Social Life, Student Publications, Student Employment, Student Loans, Women's Activities, and Veterans Affairs.

## Dean of Students

The Dean of Students is Director of the Special Services of the University. As such, he is expected to coordinate the agencies at work on special student problems. He initiates and recommends to the President needed policies and procedures in student life. It is his responsibility to administer the program recommended or approved by the President in the various areas of the Special Services.

## Counselor for Women

Of special assistance to women students is a Counselor for Women. She is a member of the Committee on Special Services and Chairman of the Committee on Women's Affairs. The Counselor for Women is available throughout each day to assist women students in meeting their personal problems.

## Personal Conduct

The Latter-day Saints support a high standard of morality in all phases of life. Those who accept the advantages of the University are expected, and in all fairness will want to assist the institution in maintaining those standards. Behavior contrary to the standards constitutes a breach of faith unworthy of intelligent, honorable people, in their role as guests.

Specifically, students are asked to observe three aspects of morality. The Christian laws of sexual morality stand first in importance. The personal habits of the individual are expected to include non-use of liquor, tobacco, and any form of drugs, the maintenance of cleanliness in person and language, and consideration for others in all relationships. In academic and intellectual matters the student is expected to honor the regulations governing use of all University facilities, attend his classes and apply himself to his studies, and conduct himself in examinations and all other situations in conformity with the honor system.

## Loan Funds

The University has numerous loan funds which are listed in the General Catalog.

## Scholarships, Assistantships, and Awards

**Graduate Assistantships.** A number of departments of the University employ graduate students on a part-time basis. The remuneration varies according to the nature of the work and the training and experience of the applicant.

Students who secure such appointments are necessarily limited in the number of courses for which they may register, and in the residence they accumulate.

All correspondence with regard to appointments as graduate assistants should be addressed to the Dean of the Graduate School. All applications for scholarships to Brigham Young University should be addressed directly to the Chairman of the Scholarship Committee.

A list of scholarships is contained in the General Catalogue.

### Student Employment

The chairman of Student Employment assists worthy students in finding employment. This includes assistance not only in placing students in positions within the University campus, but also in finding part-time employment in off-campus jobs and work for board and room. Students are not encouraged to attempt to earn their entire way through school, since this ordinarily takes too much time from their studies. (See Scholarships.)

### Student Health Service

Upon entering Brigham Young University, each regular student shall pay a Health Fee.

Student Health Fees shall be used by the University for required pre-admission and re-admission physical examinations; follow-up examinations; health guidance; care of minor illnesses and injuries of ambulatory nature; and such surgery and hospitalization as shall be designated from time to time by the University Committee on Student Health.

### Student Housing

Residence halls, providing healthful and congenial living quarters for both men and women students, will be available on a cooperative basis.

Allen Hall, Amanda Knight Hall, and Campus Hall for women provide every modern convenience. All accommodations are furnished, including furniture, bedding and linen. Applications to live in any of the school residence halls should be filed with the Chairman of Student Housing before the opening of school, and should be accompanied by a deposit of \$10. If the student decides later not to enter the University, the deposit fee will be returned, provided notification has been given ten days before the opening of the term.

Wymount Village, completed during the school year 1946-47, provides housing for 300 single and 200 married students.

Board and room in private homes costs from \$11.00 to \$15.00 per week. By renting rooms and boarding themselves students are able to reduce considerably the cost of room and board.

If students desiring assistance will call at the office of Student Housing when they arrive in Provo, they will be furnished lists of available living quarters. When students desire to change living quarters, they are expected to call on and notify the Chairman of Student Housing.

The University insists that men and women be housed separately. The boarding houses are inspected to see that accommodations are satisfactory. The University maintains two cafeterias where students may secure meals at cost.

## Religious Opportunities

Brigham Young University students have excellent opportunities for participation in religious activities. Among the organizations which make this possible are the following:

**University Assemblies:** Instructive programs are offered at regular assembly periods each week during the year.

**Church Services.** Two branches of the Church, affiliated with the East Provo Stake, are found on the campus. Wymount Branch is made up of those living in Wymount Village. Campus Branch is made up of students living in dormitories and nearby homes. Each of these branches conducts a full program of religious activities under the leadership of officers chosen from among the students.

**Other Programs.** The University, through its various departments and special activities, presents numerous inspirational and instructive programs made up of music, drama, literature, and special lectures. These programs are open to all students and usually to all others who enjoy attending.

## Departments of Instruction

The following courses carry only graduate credit. Advanced undergraduates may register for some of them as part of their baccalaureate programs by securing permission of the instructor **prior to** registration, and by doing all the work required in the course. The Graduate Faculty holds to the policy that graduate work is not made up of doing more of the work which constitutes an undergraduate course, but should involve more depth, a more mature integration of all ideas included in a subject, and more initiative on the part of the student both as to the amount and nature of his study and his analysis and evaluation of the content of a course, than are generally expected of undergraduate students.

Courses enclosed in brackets ( ) are not offered in the current year. Prerequisite courses listed by number only without the name of a department refer to the department in whose list they appear. All courses with variable credit assume the exact amount to be received is to be arranged with the instructor at time of registration. All courses which permit selection of topics to be studied assume this will be arranged with the instructor at the time of registration.

Many departments offer opportunities to do independent reading, or to organize special groups for subjects to be arranged. In each case it is assumed such registrations will be used **only when regular courses do not supply what the student needs**, and for the purpose of meeting those needs. Organization of special groups is possible only when enough students want it to justify the time of an instructor.

### Accounting and Business Administration

Professors Boyle, Hoyt, (chairman);  
Assistant Professors Lowe, R. L. Smith, and R. J. Smith.

Field: Accounting and Business Administration

#### COURSES

<p><b>280. Advanced Accounting.</b> Prerequisite: 152.</p> <p><b>281, 282. Industrial Internal Auditing.</b> Prerequisites: 152 or 194 or equivalent.</p> <p><b>283. Internal Auditing for Special Industries.</b> Prerequisites: Same as for 281.</p> <p><b>288. Advanced Tax Problems.</b> Prerequisite: 188.</p>	<p style="text-align: right;">(5) A. S. Smith, Lowe</p> <p style="text-align: right;">(3, 3) A W Hoyt, Sowards</p> <p style="text-align: right;">(3) S Hoyt, Sowards</p> <p style="text-align: right;">(3) S Lowe</p>
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293. Reading and Conference.	(1-5) A. W. S.
Subject to be arranged with instructor.	Staff
294. Standard Costs.	(3) A
Evening sessions.	Staff
296, 297, 298. C. P. A. Coaching.	(4, 4, 4) A. W. S.
Prerequisites: 152, 191, 194, 195, and contemporaneously with 187, 188 and 189.	Smith
300. Thesis for Master's Degree.	Staff

## Agricultural Economics

Professor Pond (chairman).  
Field: Agricultural Economics

### COURSES

292. Governmental Agricultural Policy	(3) S
Pond	
296. Individual Readings.	(Arr)
Pond	
297. Individual Research.	(Arr)
Pond	
300. Thesis.	Staff

The following courses are acceptable as applying to this field: Economics 278, 295, 299, and Marketing 285.

## Agronomy

Professor Martin (chairman); Associate Professors Beck, Farnsworth.  
Field: Agronomy

Students preparing for graduate work in Agronomy are urged to obtain a thorough knowledge of introductory physics, zoology, chemistry, mathematics, botany, bacteriology and geology. Opportunity will be afforded for further study in some of these subjects after entering the Graduate School, but a student deficient in these foundation courses cannot expect to receive an advanced degree in the minimum time required for residence.

The Agronomy Department has established the following minimum requirements for permission to study toward a Master's Degree.

(1) An undergraduate minor in Agronomy (a major is preferred):

(2) A satisfactory completion of the following undergraduate courses: Chemistry 14, 15, 16, 21, 22, (31, 32 preferred); Mathematics 11, 12, 13; Geology 1, 12; Bacteriology 21, 22. Physics 41, 42, 43; Zoology 11; Botany 1, 3, 140, 150. If a student is emphasizing crops, the botany courses 140 and 150 may be taken as a graduate student, and need not necessarily be completed as undergraduate credit, as they must if one is emphasizing soils. If, however, these botany courses have been taken as an undergraduate more time will be afforded for graduate courses.

### COURSES

201. (Advanced Plant Breeding.)	(3) A Staff
203. Advanced Soil Physics.	(4) W Farnsworth
205. Physical Chemistry of Soil Formation.	(4) S Farnsworth
223. Advanced Range Management.	(1-4) A W S Stewart
289. Conservation of Plant and Soil Resources	(1-4) A W S Christensen, Stewart
292. Soil Microbiology. Prerequisites: 105; Bacteriology 21, 22.	(3) S Beck
293. Soil Microbiology Laboratory. Prerequisites: 292; Chemistry 31, 32, or equivalent. Accompanies microbiology lectures.	(2) S Farnsworth and Martin
294. Seminar.	(1) A W S Martin, Farnsworth
295. Special Problems.	Arr. A W S Staff
297. Research.	Arr. A W S Staff
299. Agricultural Literature.	Arr. A W S Staff
300. Thesis for Master's Degree.	Staff

See also Chemistry 264, 265, which may be counted in this field.

## Animal Husbandry

Associate Professor Richards (chairman);  
Assistant Professor Shumway

Field: Animal Husbandry

### COURSES

201. Animal Breeding Research.	(1-5) A W S Richards
202. Special Problems in Animal Breeding.	(1-5) A W S Richards
207. Animal Nutrition. Prerequisites: 7. 107.	(3) S Shumway
210. Problems in Animal Nutrition Research.	(1-5) A W S Shumway
211. Special Problems in Animal Nutrition.	(1-5) A W S Shumway
215. Animal Breeding Plans.	(3) A Richards
220. Problems in Dairy Research.	(1-5) A W S Richards, Shumway
221. Special Problems in Dairying	(1-5) A W S Richards, Shumway
230. Animal Disease Research.	(1-5) A W S Nicholes
231. Special Problems in Animal Disease.	(1-5) A W S Nicholes
271. Secretion of Milk.	(3) S Shumway
260. Experimental Methods in Livestock Work.	(3) W Richards
275. Graduate Seminar.	(1) S Richards
300. Thesis.	Staff

## Archaeology

Professor Sperry;

Associate Professor Jakeman (chairman),

Assistant Professor Christensen

Fields: Near Eastern and Biblical Archaeology  
American Archaeology

A graduate major in Archaeology requires evidence of completion of an undergraduate major in this subject, and the completion of twenty-three hours of advanced work in the Department of Archaeology, including at least eighteen hours of graduate credit in one of the two fields of specialization (if in Near Eastern and biblical archaeology, selected from courses 251, 252, 253, 255, 256, 257, 260, 294, 297, and 300; if in American archaeology, selected from courses 271, 272, 280, 294, 297, and 300). Up to five hours of the twenty-three may be of upper division credit, if taken after the Bachelor's degree and in the field of major specialization, and approved by the chairman of the Department. (For a list of courses available for upper division credit in Archaeology see the Annual Catalogue of the University.)

### COURSES

201. History of Archaeology. (2) W  
Christensen

251, 252, 253. Introduction to Cuneiform (2, 2, 2) A W S  
Studies. Sperry  
(See Bible and M. S. 251, 252, 253.)

260. Advanced Near-Eastern and (5) A W  
Biblical Archaeology. Jakeman, Christensen

271, 272, Introduction of Hieroglyphic Studies. (2, 2) A W  
Ancient American. Jakeman

280. Advanced American Archaeology. (5) A W  
Jakeman, Christensen

294. Library and Museum Research. (2-4) A W S  
Staff

.297. Field Research. (3, 5, or 8) A W S  
Staff  
(Consult Chairman of Department regarding credit  
for field work. For work in the near East see state-  
ment under Department of Bible and Modern Scrip-  
ture.)

300. Thesis for Master's Degree. Staff  
See also Bible and Modern Scripture 255, 256, 257,  
which may be applied to this field.

## Art

Professors Larsen (chairman), Jenson;  
 Assistant Professors Andrus, Turner; Mr. Taylor, Mr. Stewart.

Fields: Painting and Sculpture  
 Design

### COURSES

201, 202, 203. Composition.	(2, 2, 2)	A W S Larsen
211. Contemporary Mural Design.	(2-4)	W Andrus
215. Period Furnishing.	(3)	A Taylor
216. Decorative Material for Interior Design	(3)	W Taylor
217. Practical Problems in Interior Design.	(3)	S Taylor
221, 222, 223. Advanced Drawing and Painting.	(2-4)	A W S Larsen
227, 228, 229. Pictorial Composition.	(2-5)	A W S Larsen
233, 234, 235. Individual Expression in Water Color Painting.	2-4)	A W S Turner
239, 240, 241. Lettering and Layout for Reproduction.	(2, 2, 2,)	A W S Stewart
242. Various Media in Illustration.	(2)	W Stewart
250. Experimental Relief Printing.	(2-4)	A Andrus
251. Color Lithography and Etching.	(2-4)	W Andrus
252. Seriography	(2-4)	S Andrus
256, 257, 258. Advanced Sculpture.	(2, 2, 2,)	A W S Turner
271. Survey of Recent Studies in Art Education.	(3)	A Staff
274, 275, 276. Portrait and Figure Design and Painting.	(2-4)	A W S Andrus

280, 281, 282. The Design and Painting Mural Types.	(1-5) A W S Andrus
283, 284, 285. Studio Art.	(2-5) A W S Staff
286, 287, 288. Studio Art.	(1-5) A W S Staff
290, 291, 292. Color.	(2, 2, 2) A W S Andrus
299. Seminar.	Arr. A W S Staff
300. Thesis.	Staff

## Bacteriology

Professor Martin;  
Associate Professors J. Beck (chairman), Farnsworth.  
Field: Bacteriology.

Adequate preparation for graduate work presupposes satisfactory training in chemistry, mathematics, physics, and biological sciences. If a student is deficient in his foundation courses, the opportunity will be given after entering the Graduate School to correct these deficiencies. However, such a student cannot expect to receive the advanced degree in the minimum time required for residence.

Permission to work for the Master's Degree in Bacteriology is based on satisfying the following minimum requirements:

1. An undergraduate minor in Bacteriology (preferably a major).
2. Satisfactory completion of the following undergraduate courses:
  - Chemistry 14, 15, 16, 21, 22, 141, 143.
  - Mathematics 11, 12, 13.
  - Physics 31, 32, 33, or 41, 42, 43.
  - Zoology 11.
  - Botany 1.
 or the equivalent of these courses.

Courses recommended but not required include Chemistry 181, 182, 183; and Zoology 166, 170, 171.

## COURSES

251. Systematic Bacteriology.

(3) S  
Beck

281. **Pathogenic Bacteriology.** (3) W  
 Prerequisites: 21, 22, and 5 additional hours; Beck  
 Chemistry 141.

282. **Pathogenic Bacteriology Laboratory.** (2) W  
 Laboratory for 281. Beck

291. **Bacteriological Literature.** (1) A W S  
 Assigned topics to be reported. Required Beck  
 of all Bacteriology majors.

292. **Soil Microbiology.** (3) S  
 Prerequisites: 21, 22; Chemistry 21. Beck  
 (See Agronomy 292.)

293. **Soil Microbiology Laboratory.** (2) S  
 Prerequisites: 292. Chemistry 21, Farnsworth, Martin  
 22, or 31, 32. Laboratory for 292.

294. **Graduate Seminar.** (1) A W S  
 Beck, Martin

295. **(Physiology and Biochemistry of Bacteria.)** (3) W  
 Staff

297. **Graduate special problems.** Arr. A W S  
 An introduction to Bacteriology 299. Staff

299. **Research to furnish data for thesis.** Arr. A W S  
 Staff

300. **Thesis** Staff

See also Agronomy 292, which may be counted in this field.

### Bible and Modern Scripture

Professor Sperry (chairman); Associate Professor Nibley  
 Field: Bible and Modern Scripture

Those who expect to major in this field should consult the chairman of the department concerning required background. Those whose background is lacking in certain preparation will not be able to complete a Master's Degree in the minimum residence and credit requirements.

### COURSES

201. **The History of Israel.** (2) A  
 Sperry

202. The Prophets of Israel.	(2) W Sperry
203. The Manners and Customs of the Hebrews.	(2) S Sperry
211. An Analysis of the Book of Mormon.	(2) A Sperry
213. An Analysis of the Doctrine and Covenants.	(2) W Sperry
221, 222, 223. Elementary Hebrew.	(5, 5, 5) A W S Sperry
224, 225, 226. Intermediate Hebrew.	(3, 3, 3) A W S Sperry
227, 228, 229. Advanced Hebrew.	(2, 2, 2) A W S Sperry
231, 232, 233. Biblical Aramaic and the Targums. Prerequisites: 221, 222, 223.	(2, 2, 2) A W S Sperry
241, 242, 243. Elementary Syriac. Prerequisites: 221, 222, 223.	(3, 3, 3) A W S Sperry
244, 245, 246. Advanced Syriac.	(2, 2, 2) A W S Sperry
251, 252, 253. Elementary Akkadian. Prerequisite: Two years of Hebrew or consent of instructor.	(2, 2, 2) A W S Sperry
255, 256, 257. Elementary Egyptian. (Hieroglyphic) Prerequisite: Two years of a Semitic language or consent of instructor.	(2, 2, 2) A W S Sperry
300. Thesis for Master's Degree.	Staff

See also the following courses: Archaeology 260, 280, Greek 261 to 269, and 271 to 273, and Latin 281 to 286, which may be applied to this field.

Students specializing in the Bible have the opportunity of continuing their studies in the Near East. Brigham Young University is a member of the Corporation of the American Schools of Oriental Research, and its students may attend the American School at Jerusalem or the one at Bagdad without tuition charges. Students may compete for one of the Fellowships offered annually by the schools, providing financial aid beyond tuition.

## Botany

Professor Harrison (chairman); Mr. Christensen, Mr. Stewart  
Field: Botany

### COURSES

231. Advanced Taxonomy.	(2-5) S
Prerequisites: 3, 91 and Zoology 29.	Harrison
236. Agrostology: Taxonomy and Ecology of Grasses.	(3) A
Prerequisites: 3, 91 and Zoology 29 recommended.	Harrison
245. Plant Nutrition and Growth.	(3) A
Prerequisites: 140; Chemistry 14, 15, 16. Chemistry 141, 142, 143 recommended.	Harrison
252. Field Ecology.	(2) S
Prerequisite: Consent of instructor.	Harrison
254. Methods in Field Ecology.	(3-5) S
Prerequisite: 150, 155.	Harrison
259. Range and Forest Ecology.	(2-4) A W S
Prerequisite: Consent of instructor.	Harrison, Stewart
260. Experimental Ecology.	(3) S
Prerequisite: 140, 150.	Harrison
268. Conservation of Natural Resources.	(2-5) A W S
Prerequisite: Consent of	Christensen, Stewart
instructor.	
285, 286. Seminar.	(1, 1) A W
	Staff
290, 291, 292. Special Problems.	(2-5) A W S
	Staff
300. Thesis for Master's Degree.	Staff

## Chemistry

Professor Nicholes, (chairman);  
Associate Professors Broadbent, Bryner, Peterson;  
Assistant Professors Goates, Swensen, Wing

Fields: Chemistry, when major or minor are  
in another department.

Physical, Inorganic, and Analytical Chemistry  
or Organic, Biological and Analytical Chemistry,  
when one is the major and one the  
minor.

Two alternative procedures are available to the student. (1) The completion of 30 hours of credit in graduate courses in chemistry (the Department of Chemistry is here considered one field) and a minimum of 15 hours in another field, or fields, such as mathematics, physics, geology, zoology, botany, bacteriology agronomy and animal husbandry. (2) The completion of a minimum of 23 hours of credit in graduate courses in one field of chemistry and a minimum of 15 hours in the other field of chemistry.

A candidate for the Master's degree with a major in chemistry must present the requirements for the Bachelor's degree in chemistry, as outlined in Brigham Young University General Catalog, or its equivalent.

### COURSES

204. History of Chemistry.	(3) S
	Nicholes
211, 212, 213. Advanced Inorganic Chemistry.	(3, 3, 3) A W S
	Peterson
214. Inorganic Preparations.	(2) A
	Peterson
216. Advanced Qualitative Analysis.	(3) A
	Wing
221. Advanced Quantitative Analysis.	(3-5) W S
	Wing
222, 223. Micro-chemical Analysis.	(2, 2, 2) A W S
	Wing
237. Instrumental Analysis.	(3-5) S
	Goates
251. Qualitative Organic Analysis. Prerequisites: 151, 152, 153.	(4) A
	Broadbent
252. Organic Synthesis. Prerequisites: 151, 152, 153.	(3) W
	Broadbent
253. Physical Organic Chemistry. Prerequisites: 161, 162, 163, and 251.	(3) S
	Broadbent
261, 262. Chemical Thermodynamics.	(3, 3) A W
	Goates
263. Chemical Kinetics.	(3) S
	Goates
264. Colloidal Chemistry	(3) A
	Goates

265. Surface Chemistry Laboratory.	(2) A
	Goates
281. Biochemistry.	(3) W
Prerequisites: 183, 264.	Swensen
282. Biochemistry.	(3) S
Prerequisites: 183, 264.	Swensen
297. Research. Special Problems.	Arr. A W S
	Staff
300. Thesis for Master's Degree.	Staff

## Church History

Associate Professors Berrett, Nibley (Chairman).

### COURSES

204. The Primitive Church and the Apostasy.	(2) A
	Nibley
205. The Rise of the Western Church, to 600 A.D.	(2) W
	Nibley
206. The Medieval Church, 600-1500 A.D.	(2) S
	Nibley
210. Historical Development of L.D.S. Doctrines and Practices.	(2) A
	Berrett
211. Historical Development of L.D.S. Doctrines and Practices.	(2) W
	Berrett
	A continuation of 210.
212. Historical Development of L.D.S. Doctrines and Practices.	(2) S
	Berrett
	A continuation of 211.
213. Special Problems in L.D.S. Church History.	(2) A
	Berrett
214. Special Problems in L.D.S. Church History. (Continuation of 213.)	(2) W
	Berrett
215. Special Problems in L.D.S. Church History. (Continuation of 214.)	(2) S
	Berrett
220. 221, 222. World Religions.	(2) A W S
	Nibley
300. Thesis.	Staff

## Economics

Professors Miller (chairman), Pond

Field: Economics

### COURSES

262. <b>Collective Bargaining and Industrial Relations</b>	(3) W
Prerequisite: 161.	Miller
263. <b>Labor Law.</b>	(3) S
Prerequisite: 161.	Miller
278. <b>International Trade and Finance.</b>	(3) A
	Miller
295. <b>Advanced Economic Theory.</b>	(5) W
Prerequisite: 194.	Pond
296, 297, 298. <b>Research.</b>	Arr. A W S
	Miller, Pond
299. <b>History of Economic Thought.</b>	(5) S
	Pond
300. <b>Thesis for Master's Degree.</b>	Staff

The following courses will be recognized as applying on a major in Economics: Marketing 285, Finance and Banking 201, 254, and 268, and Agr. Econ. 292.

## Education

Professors H. G. Clark, C. J. Hart, Law (chairman); Lloyd, Morrill, Romney; Associate Professors Barnett, M. H. Clark, A. J. Clark, Sudweeks.

No graduate field is offered in this department. See other departments of education for fields offered in them. Courses offered in this department may be used in other Education departments with the approval of the student's chairman.

### COURSES

218. <b>Educational Research and Thesis Writing.</b>	(3) A W S
Prerequisite: 33 hours Education.	Staff
230 - 235. <b>Independent Readings in Education.</b>	(1-2) A W S
Prerequisite: Consent of Instructor	Law and Staff
and 33 hours Education.	

250, 251. Seminar in Education.	Arr. A W S
Prerequisite: 33 hours of Education	Law, Staff
252. Statistical Methods.	(3) A S
Prerequisite: 33 hours of Education and Psychology.	Law, Clarke, Barnett
257 - 259. Research in Education.	(2) A W S
Prerequisite: 33 hours Education, and consent of instructor.	Lavr, Staff
267. Periodical Educational Literature.	(2) A W S
	Sudweeks
270. Advanced Statistics in Education.	(3) S
Prerequisite: 33 hours Education, including Education 252.	Law, Clarke, Barnett
273. Educational Tests and Measurements.	(3) W
Prerequisite: 33 hours Education.	Barnett, Staff
276. Audio-Visual Materials and Procedures.	(3) W
Prerequisite: 175.	Tyndall
285. Problems of the Teaching Profession.	(3) A S
Prerequisite: 33 hours Education.	Law, H. G. Clark, Morrill, Staff
297. Current Problems and Issues in Education.	(3) A S
Prerequisite: 33 hours of Education, and some field experience.	Law, Staff
299. Teaching in the College and University.	(3) W
	H. G. Clark

## Educational Administration

Professors H. G. Clark, E. M. Jensen, Lambert, Law (chairman), Morrill, Sudweeks; Associate Professor Barnett

Field: Educational Administration

Graduate majors in Educational Administration should include in their programs Education 252, 218, and 273; a course in History of Education; Educational Administration 211, 216, 293, 295, 296, or 298, and 300 or 301. Additional work should be selected under advisement from the chairman of the student's special committee. The candidate will be expected to present evidence of the completion of all requirements for either an elementary or secondary teaching certificate together with nine quarter hours of credit pertaining specifically to the certificate for which requirements are not

completed. (This should include elementary or secondary curriculum.) Evidence of three years of successful teaching experience should also be provided.

### COURSES

201 - 210. **Independent Readings in Organization, Administration and Supervision.** Staff  
Prerequisite: 33 hours Education and permission of the instructor. Arr. A W S

211. **Public School Finance.** (5) A W  
Prerequisite: 33 hours Education. Law, Morrill, Barnett

213. **(Personnel Problems of the Teaching Staff).** (3) W  
Prerequisite: 33 hours Education. Morrill, Staff

216. **Public School Building Programs.** (3) S  
Prerequisite: 33 hours Education. Morrill, Barnett

220. **Adult Education Programs.** (3) S  
H. G. Clark

250, 251. **Seminar in Education.** Arr. A W S  
Prerequisite: 33 hours Education. Law and Staff

255. **School Law.** (3) W  
Prerequisite: 33 hours Education. Law, Morrill, Barnett

257 - 259. **Research in Educational Administration.** (2) A W S  
Prerequisite: 33 hours Education, and Law and Staff consent of instructor.

265. **(College and University Organization and Administration).** (3) W  
Staff

266. **Work Improvement Efficiency in the Public Schools.** (3) W  
H. G. Clark

293. **The Organization and Administration of Public Schools.** (5) A S  
Prerequisite: 33 hours Education. Morrill, Barnett

295. **Supervision of Education.** (3) S  
Prerequisite: 33 hours Education. Law

300. **The Master's Thesis in Educational Administration.** Staff

301. **Field Project.** Four or more credit hours. Staff

See also Education 285, Elementary Education 298, and Secondary Education 296, which may be applied to this field.

## Elementary Education

Professor Morrill (act'g chairman), Ass't Professors Alder, Berryessa, Brown, Candland, Fisher, Hammond, Maeser.

### Field: Elementary Education

For majors in Elementary Education courses 202 and 206 are required.

Students taking the Master's Degree in other departments in the Graduate School may minor in Elementary Education by taking 15 hours of carefully selected work in Graduate Elementary Education courses.

Students registering for graduate courses in elementary education must have previously taken sufficient work in elementary education to have acquired a sound philosophy and background for elementary education. This background should have included elementary education 181, 182, 160, and education 163 or the equivalent. In most instances students should have taken a foundation course in the same area as the graduate course, e.g., students registering for 212 should have taken 160. In no instance should students register for graduate courses in the area of curriculum if they have not previously taken the basic course in curriculum, 181 and 182. (Teachers with one or more years of teaching experience may in most instances register for graduate work.)

### COURSES

**202. Curriculum Building in the Elementary School.** (3) W  
Candland

**203 - 205. Individual Studies in Elementary Education.** (1-4) A W S  
Brown, Berryessa,  
Maeser, Candland

Requires a minimum of twenty-five clock hours for each quarter-hour of college credit.

**206 - 208. Seminar in Elementary Education.** (2-6) A S  
Brown, Candland, Berryessa

**210. Reading in the Elementary School.** (3) W  
Staff

**211. Language Arts in the Elementary School.** (3) W  
Hammond, Peterson, Maeser

**212. Research in Child Growth and Development.** (3) A  
Hammond, Maeser

**213. Social Studies in the Elementary School.** (3) A  
Berryessa, Candland

214. (Arithmetic in the Elementary School.)	(3) W
	Brown, Maeser
215. Science in the Elementary School.	(3) S
	Brown
216. (Creative Arts in the Elementary School.)	(2) A
	Hammond, Fisher, Andrus
217. (Arts and Crafts for Elementary Teachers.)	(2) S
	Andrus
222. (Advanced Study in Early Childhood Education.)	(3) A
	Hammond, Peterson, Candland
298. The Elementary School Principalship.	(3) S
	Morrill, Barnett
300. Thesis for Master's Degree.	Staff
301. Field Project.	Staff

## English

Professors Christensen (chairman), Young;  
 Associate Professors Jacobs, Spears;  
 Assistant Professors Booth, Britsch, Cheney, Clark, Larson,  
 Lee, Rice, Taylor; Miss Oaks, Mr. Peterson.

Field: English

Candidates for the degree of Master of Arts in English must have met the requirements for the degree of Bachelor of Arts or their equivalent. They must offer at least forty-five hours of credit beyond the requirements for the baccalaureate degree, of which at least twenty-three must be in the field of English, and of which at least thirteen must be in graduate courses in English as distinguished from courses listed as upper division. They must offer, either in their baccalaureate or in their graduate program, credit in Old English, Chaucer, History of English Language, Shakespeare, and American Literature. They must write a satisfactory thesis, and pass a comprehensive oral examination in the fields of English and American literature and language.

## COURSES

201. Problems in Thesis Writing	(0) A S
	Rice
227. Victorian Social Critics.	(4) A
	Booth

247. Seminar in American Literature.	(4) A
	Jacobs
260. English Drama to 1642.	(4) W
	Young
264. Restoration Drama.	(4) W
	Rice
273. (The Age of Enlightenment in England.)	(4) W
	Rice
274. Seminar in Romanticism. . .	(4) S
	B. Clark
295. Old English.	(4) A
	Young
296. Middle English.	(4) S
	Christensen
298. (Problems in Literary Criticism.)	(4) S
Prerequisite: 198 or permission of instructor.	Christensen
299. Beowulf.	(3) S
Prerequisite: 295.	Rice
300. Thesis for Master's Degree.	Staff

## Finance and Banking

Professors Edwards, H. R. Clark, (chairman).

Field: Finance and Banking

### COURSES

201. Research in Business Finance.	(2-5) W S
	Clark
254. Investments.	(5) A S
Prerequisite: 151; Accounting 35, 151, 174.	Edwards
268. Economics of Finance.	(5) W
	Edwards
300. Thesis.	Staff

The following courses will be recognized as applying on a major in Finance and Banking: Education Administration 211, Economics 278.

## Geology and Geography

Professor Hansen (chairman); Associate Professor Bissell;  
Assistant Professors Bullock, Tuttle; Mr. Hyatt.

Fields: Economic Geology and Mineralogy  
Stratigraphy and Field Geology  
Geography.

The following courses are prerequisites for all students who work toward a master's degree in Geology: Geology 1, 12, 106, 115, 117, 118, 119, 130, 132, 160.

Ten hours of undergraduate upper division work selected from the following list may be applied toward a master's degree: Geology 171, 173, 180. (See regulations governing this matter on pp. 16-17.)

### COURSES IN GEOLOGY

201, 202, 203. Research.	(1-3) A W S
Special problems in the field of geology	Staff
designed for students prepared to do original work.	
210. Geology of Utah.	(5) A Hansen
230. Advanced Structural Geology.	(1-5) A W S
Prerequisite: 130.	Staff
231. Geology of the U. S.	(5) W
Prerequisite: 130	Hansen
250. Mineral Optics.	(5) A
Prerequisite: 119.	Bullock
251. Petrography.	(2) W
Prerequisite 250.	Bullock
252. Igneous Petrology.	(3) W
Prerequisite: 130.	Bullock
253. Metamorphic Geology.	(5) S
Prerequisite: 130.	Bullock
260, 261, 262. Advanced Field Geology.	(1-5) A W S
Prerequisite: 132.	Staff
270. Vertebrate Paleontology.	(5)
Prerequisite: 12.	Hansen
271. Index Fossils.	(1-3) W
Prerequisite: 171.	Bissell

273. <b>Sedimentology.</b> Prerequisite: 172	(3) A Bissell
274. <b>Sedimentary Petrology.</b> Prerequisite: 172	(3) W Bissell
275. <b>Sedimentary Petrography.</b> Prerequisite: 172	(2) W Bissell
276. <b>Sedimentation and Stratigraphy.</b> Prerequisite: 274.	(3-5) S Bissell
277. <b>Petroleum Geology.</b> Prerequisite: 130.	(5) S Hansen
281. <b>Metalliferous Deposits.</b> Prerequisite: 180.	(5) S Bullock
283. <b>Non-Metalliferous Deposits.</b> Prerequisite: 180.	(5) W Hyatt
284. <b>Geology of Ceramic Raw Materials.</b> Prerequisite: 180.	(3) S Hyatt
285. <b>Geology of Ground Water.</b> Prerequisite: 130.	(5) A Hansen
291. 292, 293. <b>Seminar.</b> (Required of all graduates).	(1, 1, 1,) A W S Staff
296. <b>Readings in Geology.</b> Total of six registrations permitted.	(1) A W S Staff
300. <b>Thesis for Master's Degree.</b>	Staff

## COURSES IN GEOGRAPHY

205, 206, 207. <b>Research.</b>	Arr. A W S Hansen, Tuttle
250. <b>Geography of North America.</b> Prerequisite: Consent of Instructor.	(5) A Tuttle
255. <b>Geography of Latin America.</b> Prerequisite: Consent of Instructor.	(5) S Tuttle
260. <b>Geography of Europe.</b> Prerequisite: Consent of Instructor.	(5) W Tuttle
265. <b>Geography of Asia.</b> Prerequisite: Consent of Instructor.	(5) W Tuttle
268. <b>Readings in Geography.</b> A total of six registrations permitted. (For Geography majors and minors).	(1) A W S Hansen, Tuttle
300. <b>Thesis for Master's Degree.</b>	Staff

## History

Professor Swensen (chairman); Associate Professor Nibley  
Assistant Professors Madsen, Poll.

### Field: History

History 290, 293, or the equivalent and two additional seminar courses, 294-297, are required of all those who major in history.

### COURSES

206. Greek Philosophers.	(3) S
	Swensen
212. (History of Medieval Thought.)	(3) S
	Swensen
221. History of Europe 1500-1815. Prerequisite: 12 or the equivalent.	(3) W
	Poll
222. History of Europe, 1815-1914.	(3) S
	Poll
225. (Economic History of Europe, 1500-1950.) Prerequisite: 12 or the equivalent.	(3) A
	Poll
245. (Constitutional History of England.) Prerequisites: 20, 21, or the equivalent.	(3) W
	Madsen
263. Historical Geography of the United States. Prerequisites: 20, 21, or the equivalent.	(3) A
	Madsen
270. (Colonial American History.) Prerequisite: 20 or the equivalent.	(3) A
	Madsen
275. (History of the United States, 1783-1815.) Prerequisite: 20, 21, or equivalent.	(3) W
	Poll
276. (History of the United States, 1815-1850.) Prerequisite: 20, 21, or equivalent	(3) S
	Madsen
277. History of the United States, 1850-1877. Prerequisite: 20, 21, or equivalent.	(3) W
	Poll
278. History of the United States, 1877-1919. Prerequisites: 20, 21, or the equivalent.	(3) S
	Madsen
284. (History of American Foreign Policy.)	(3) W
	Madsen
286. (Constitutional History of the United States.) Prerequisites: 20, 21, or the equivalent. Pre-law students by permission of instructor.	(3) W
	Staff

290. (Historiography and Historical Method.)	(3)
	Swensen
291. Ancient Historians.	(3) W
	Swensen
292. American Historians.	(3) S
	Madsen
293. (Seminar in Methods of Historical Research and Writing.)	(2)
	Madsen and Poll
294. Seminar in Ancient History.	(2) W
	Swensen
295. Seminar in Medieval History	(2) S
	Swensen
296. Seminar in American History.	(2) W S
	Madsen
297. Seminar in Utah History.	(2) W S
	Poll
298. Special Readings in History.	Arr. A W S
	Staff
299. Special Research in History.	Arr. A W S
	Staff
300. Thesis for Master's Degree.	Staff

See also Political Science 286, which may be counted toward History.

## Journalism

Assistant Professors Smith (chairman), Wight.

Field: Journalism

Prospective majors in this field are advised to consult with the chairman of the department concerning required background for graduate study.

## COURSES

205. History of Journalism.	(5) A
	Smith
206. Mass Communications and Society.	(3) W
	Smith

291, 292, 293. Special Studies in Journalism.	(1-2) A W S Smith, Wight
294. Readings in Mass Communication.	Arr. A W S Staff
300. Thesis for Master's Degree.	Staff

## L.D.S. Church Organization and Administration

Professor Sudweeks

This field is not available for the master's degree in 1952-53.

### COURSES

219. Research Problems in Genealogy.	(2) A W S Sudweeks
Prerequisite: 118	

## Marketing

Associate Professor Taylor (chairman).

Field: Marketing

### COURSES

204. Research in Marketing Problems.	Arr. A W S Taylor
Prerequisite: 157.	
205. Special Problems in Retailing.	Arr. A W S Boyle
Prerequisite: 158.	
206. Special Problems in Marketing and Marketing Analysis.	Arr. A W S Staff
Prerequisite: Accounting and Business Ad- ministration 174.	
261. Retail Store Control.	(5) W Taylor
Prerequisite: Accounting and Business Ad- ministration 150.	
285. Seminar in Marketing and Merchandising.	(3) S Taylor
Prerequisite: 157; Accounting & Business Administration 174 or 175.	
300. Thesis for Master's Degree.	Staff

The following courses will be recognized as applying on  
a major in Marketing: Economics 278, 295, 299.

## Mathematics

Professors Hales, Marshall; Assistant Professors Eastmond, Gardner.

### Field: Mathematics

A student should not seek the master's degree in mathematics until he has had training represented by credit in Mathematics 111, 112, 113. A candidate for the master's degree may use the undergraduate courses 121, 122, 123 toward the master's degree up to a limit of 10 hours, if he has failed to register for such courses in his undergraduate studies. This must be done in conformity with the regulations governing such usage in the fore part of the catalog.

### COURSES

201, 202, 203. (Advanced Calculus.)	(3, 3, 3) A W S Marshall
221. (Vector and Tensor Analysis.)	(3) A Gardner
222, 223. (Partial Differential Equations.)	(3, 3) W S Gardner
231, 232, 233. Functions of a Complex Variable.	(2, 2, 2) A W S Marshall
292. Readings in Mathematics.	(1-3) A W S Marshall, Hales, Gardner, Eastmond
300. Thesis.	Staff

See also Physics 205, 206, 207, which may be applied on a mathematics major or minor.

## Modern and Classical Languages

Professors Cummings (chairman), de Jong, Sperry;  
Associate Professors Lee, Nibley; Assistant Professors Clark,  
Rogers, Taylor, Valentine, Wilkins; Mr. Gibson.

Fields: French, German, Greek, Latin, Portuguese, Spanish.

Majors and minors are defined as follows: The major and the minor may be chosen in the language area or the literature area of any one of the languages. If either is chosen as the major the other becomes the minor. As an alternative a combination of language and literature of one language may be designated the major, and the minor may be built of

courses in the second language, but such a program is to be approved by the head of the department who may require more than the University minimum quantity of credit for the minor. The minor may be in any one of several other departments subject to approval.

COURSES IN FRENCH

201. (French Composition and Conversation.)	(3) A W S Lee, Clark
206. (French Literary Criticism.)	(3) S Cummings
231. Old French Literature.	(3) W Clark
233. French Literature of the Renaissance.	(3) W Lee
234. French Literature of the Seventeenth Century.	(3) A Lee
235. (French Literature of the Eighteenth Century.)	(3) W Lee
236. (French Literature of the Nineteenth Century.)	(3) W Lee
237. (French Literature of the Twentieth Century.)	(3) S Cummings
240. (Classical French Tragedy.)	(3) A Clark
241. (Moliere.)	(3) W Clark
242. (Gide, Maurois, and Romans.)	(3) A Lee
243. (French Lyric Poetry.)	(3) A Lee
251. (French Drama of the Nineteenth Century.)	(3) A Cummings
252. (Modern and contemporary French Drama.)	(3) W Lee
253. (French Novel of the Nineteenth Century.)	(3) W Lee
254. (Modern French Novel.)	(3) A Lee

255. Contemporary French Novel.	(3) W Cummings
261. Introduction to French Civilization.	(3) A Cummings
291, 292, 293. French Seminar.	(1, 1, 1) A W S Cummings, Lee, Clark
297, 298, 299. Individual Study.	Arr. A W S Staff
300. Thesis for Master's Degree.	Staff

## COURSES IN GERMAN

201, 202, 203. German Composition and Conversation.	(3) A de Jong
211. History of the German Language.	(3) A de Jong
231. Die Geschichte der deutschen Literatur vom Anfang bis zu Klopstock.	(3) A Rogers
232. Literaturgeschichte von Klopstock bis zu Goethes Tod.	(3) W Rogers
233. Literaturgeschichte von der Romantik bis zur Gegenwart.	(3) S Rogers
237. (Deutche Literatur der Gegenwart.)	(3) A Rogers
241. (Lessing.)	(3) A de Jong
242. (Schiller.)	(3) W de Jong
243. (Goethe.)	(3) S de Jong
244. Kleist und Grillparzer.	(3) A de Jong
245. Hebbel und Ludwig.	(3) W de Jong
246. G. Hauptmann.	(3) S de Jong
251. Das deutsche Drama.	(3) A Rogers

254. <b>Der deutsche Roman.</b>	(3) W Rogers
256. <b>Die deutsche Novelle.</b>	(3) S Rogers
258. <b>(Die deutsche Lyrik.)</b>	(3) A de Jong
261. <b>(Deutsche Kulturgeschichte.)</b>	(3) W Staff
294, 295 296. <b>(Literarisches Seminar.)</b>	(2, 2, 2) A W S Staff
297, 298, 299. <b>Individual Study.</b>	(1-2) A W S Staff
300. <b>Thesis for Master's Degree.</b>	Staff

## COURSES IN GREEK AND LATIN

261, 262, 263. <b>Elementary Greek.</b>	(3, 3, 3) A W S Nibley
264, 265, 266. <b>Second Year Greek.</b> Prerequisite: One year of Greek.	(3, 3, 3) A W S Nibley
267, 268, 269. <b>The Greek New Testament.</b> Prerequisite: One year of Greek.	(3, 3, 3) A W S Nibley
271, 272, 273. <b>Greek Patristic Writers.</b> Prerequisite: Two years of Greek or consent of instructor.	(2-3) A W S Nibley
281, 282, 283. <b>The Latin Fathers.</b> Prerequisite: Consent of Instructor.	(3, 3, 3) A W S Nibley
284, 285, 286. <b>Medieval Latin.</b> Prerequisite: Consent of instructor.	(2-3) A W S Nibley
300. <b>Thesis for Master's Degree.</b>	Staff

## COURSES IN PORTUGUESE

201, 202, 203. <b>Portuguese Composition</b> and Conversation.	(3, 3, 3) A W S de Jong
231. <b>(Introduction to Portuguese Literature.)</b>	(3) A de Jong
232. <b>(Portuguese Literature.)</b>	(3) W de Jong

233. (Contemporary Portuguese Literature.)	(3) S de Jong
255. Introduction to Brazilian Literature.	(3) A de Jong
256. Brazilian Literature.	(3) W de Jong
257. Contemporary Brazilian Literature.	(3) S de Jong
294. (Portuguese Seminar.)	(3) A W S de Jong
296. Individual Study.	(2, 2, 2) A W S Staff
300. Master's Thesis.	Staff

See also Spanish 261, 262, 263, which may be applied to this field.

#### COURSES IN SPANISH

201. Spanish Composition and Conversation.	(3) S Taylor
212. Old Spanish Texts.	(3) S Gibson
231. Medieval Literature. Prerequisite: 135 or equivalent.	(3) W Valentine
232. Cervantes Don Quixote. Prerequisite: 135 or equivalent.	(3) S Wilkins
233. Drama of the Spanish Golden Age. Prerequisite: 135 or equivalent.	(3) W Taylor
234. (Literature of Spanish Golden Age.) Prerequisite: 135 or equivalent.	(3) W Taylor
235. (Literature of the 18th Century in Spain.) Prerequisite: 135 or equivalent.	(3) S Staff
236. Spanish Literature of the 19th Century. Prerequisite: 135 or equivalent.	(3) S Taylor
237. Literature of the 20th Century in Spain. Prerequisite: 135 or equivalent.	(3) W Wilkins
251. Drama of the 20th Century in Spain. Prerequisite: 135 or equivalent.	(3) W Taylor

252. Spanish Novel of the 19th Century. (3) A  
Prerequisite: 135 or equivalent. Taylor

255. Spanish American Poetry. (3) S  
Valentine

258. (Modern Mexican Novel.) (3) W  
Prerequisite: 163 or equivalent. Staff

259. (South American Novel.) (3) A  
Prerequisite: 163 or equivalent. Staff

261. (Iberian Civilizations from Beginnings (3) A  
to 1492.) Valentine

262. (Iberian Civilizations from 1492 to 1898.) (3) W  
Valentine

263. (Iberian Civilizations from 1898 to (3) A  
present times.) Valentine

271. (Hispanic-American Civilizations of (3) A  
the Colonial Period.) Valentine

272. (Hispanic-American Civilizations during (3) W  
the Period of Struggle for Independence.) Valentine

273. (Hispanic-American Civilizations in Modern (3) S  
Times.) Valentine

274. (The Contemporary Hispanic-American World.) (3) W  
Valentine

294. Spanish Seminar. (3) A W S  
Valentine

296. Individual Study. (2, 2, 2) A W S  
Staff

300. Master's Thesis. Staff

#### COURSES IN SEMITIC LANGUAGES

See Archaeology or Bible and Modern Scripture for  
courses in Hebrew, Aramaic, Syriac, Akkadian, and Egyptian.

#### COURSES IN LINGUISTICS

201. Introduction to Language Science. (3) A  
Gibson

211. Meanings in Language. (3) W  
Cummings

221. <b>Studies in Criticism.</b>	(3) A Cummings
231. <b>(Introduction to Romance Philology.)</b>	(3) W Clark
241. <b>History of the French Language.</b>	(3) A Clark
246. <b>(Old French Morphology and Phonology.)</b>	(3) W Clark
251. <b>History of the Spanish Language.</b>	(3) W Gibson
261. <b>History of the German Language.</b>	(3) A de Jong
266. <b>Gothic and Introduction to Comparative German Grammar.</b>	(3) W de Jong
267. <b>(Old High German and Old Saxon.)</b>	(3) S de Jong
268. <b>(Middle High German.)</b>	(3) S de Jong

## Music

Professors de Jong, Halliday (chairman), Jepperson-Madsen, Madsen; Associate Professors Dallin, Sardoni; Assistant Professors Earl, Gates, Summerhays, Weight; Mr. Hunt, Mr. Keeler, Mr. Laycock, Mr. Wakefield.

Fields: Music Theory  
Musicology  
Applied Music (minor only)

In order to elect applied music as a minor field, the institutional requirements of an undergraduate major in applied music must be met.

## COURSES

### MUSIC THEORY

211, 212, 213. <b>Counterpoint.</b>	(3, 3, 3) A W S
Prerequisite: Theory of Music 123.	Dallin, Gates

A study of the species, sixteenth century style, including imitation and setting of texts, double counterpoint, canon and fugue.

221, 222. <b>Form and Analysis.</b>	(3, 3) A W
Prerequisite: Theory of Music 123.	Dallin
223. <b>Materials of Modern Music.</b>	(3) S
Prerequisite: Theory of Music 123.	Dallin
(Can be counted as either Music Theory or Musicology.)	Music-
231, 232, 233. <b>Instrumentation.</b>	(3, 3, 3) A W S
Prerequisite: Theory of Music 123.	Sardoni, Gates
271, 272, 273. <b>Composition.</b>	(3, 3, 3) A W S
Prerequisites: Theory of Music 123; Musicology 186.	Dallin
300. <b>Thesis for Master's Degree.</b>	Staff

### MUSICOLOGY

214. <b>Music of the Seventeenth Century.</b>	(3) A
Prerequisites: Musicology 161, 162, 163, 184, 185, 186.	Wakefield
215. <b>Music of the Eighteenth Century.</b>	(3) W
Prerequisites: Musicology 161, 162, 163, 184, 185, 186.	Keeler
216. <b>Music of the Nineteenth Century.</b>	(3) S
Prerequisites: Musicology 161, 162, 163, 184, 185, 186.	Wakefield, Weight
284, 285, 286. <b>Music Literature.</b>	(3, 3, 3) A W S
Prerequisite: Musicology 186.	Dallin, Wakefield
294, 295, 296. <b>Seminar.</b>	(2, 2, 2) A W S
Prerequisites: Musicology 186; Theory of Music 123.	Dallin, Halliday
300. <b>Thesis for Master's Degree.</b>	Staff

### APPLIED MUSIC

231, 232, 233, 234, 235, 236-p. <b>Private Instruction.</b> Ten lessons per quarter.	(2) A W S
Prerequisite: Excellence attained to the equivalent of two years of private study on the college level.	
Strings: Violin, Viola, Cello, String Bass.	
Sardoni, Dallin, Laycock	
Woodwinds: Flute, Oboe, Clarinet, Saxophone, Bassoon.	Halliday
Brass: Trumpet, Cornet, French Horn, Trombone, Baritone, Tuba.	Halliday, Hunt

Percussion: Drums and Tympani.	Staff
Piano:	Keeler, Wakefield, Gates
Organ:	de Jong, Keeler
Voice:	Jepperson-Madsen, Madsen, Halliday, Weight, Earl

237. **Solo Recital.** (2) A W S  
Required of all students minoring in applied music.

## Philosophy of Education and Guidance

Professors Lloyd (chairman), Romney;  
Associate Professor Clark.

Fields: Philosophy of Education  
Personnel and Guidance

In addition to courses listed below, a number of courses offered in Education, Economics, Psychology and Sociology may be counted toward these fields on approval of the chairman of the student's special committee.

### COURSES IN PHILOSOPHY OF EDUCATION

218. <b>Introduction to Research and Thesis Writing.</b>	(3) Arr.
	Staff
274. <b>(Comparative Education.)</b>	(3)
	Romney
275. <b>(Education in the Social Order.)</b>	(3)
	Lloyd
282. <b>(History of Philosophy.)</b>	(3)
	Swenson
291. <b>(Social Ethics.)</b>	(3)
	Lloyd
292. <b>Readings in Philosophy of Education.</b>	(3) A W S
	Lloyd, Staff
294. <b>(Philosophy of Education.)</b>	(3)
	Lloyd, Romney
295, 296, 297. <b>Seminar in Philosophy of Education.</b>	(2) A W S
	Lloyd, Staff
300. <b>Thesis.</b>	Staff

See also History 212 and Education 297, which may be applied to this field.

## COURSES IN PERSONNEL AND GUIDANCE

218. (Research and Thesis Writing.) (3)  
Staff

267. Individual and Group Counseling. (3) W  
Staff

268. (Test Techniques in Guidance.) (3)  
Staff

281. Administration of Guidance Services in (3) W  
Public Schools. Romney

283. Advanced Occupational Information and (3) S  
Counseling. M. H. Clark  
Prerequisite: 182, or permission of Instructor.

285. (Case Studies in Guidance.) (3) W  
Staff

288. (Student Personnel Services in Higher (3)  
Education.) Lloyd

290. Directed Readings. (2) A W S  
Lloyd, Staff

291. Directed Readings. (2) A W S  
Lloyd, Staff

292. Internship in Personnel and Guidance. (3) Arr.  
Romney, Staff

295, 296, 297. Seminar in Personnel and (3) A W S  
Guidance. Lloyd, M. H. Clark

300. Master's Thesis. Staff

301. Field Project. Staff

## Physical Education and Recreation

Professors Hart (chairman), Holbrook, Kimball;  
Assistant Professors Dixon, Soffe.

Fields: Physical Education  
Recreation

## COURSES IN PHYSICAL EDUCATION

208. (Problems in Athletic Coaching and (3)  
Administration.)

231. Philosophy of Physical Education. (3) W  
Staff

235. History of Physical Education.	(3) S
	Holbrook
236. Problems in Curriculum Construction in Physical Education.	(3) W
	Hart
247. Principles and Practices of Physical Reconditioning.	(3) A
	Dixon
Prerequisites: 141, 146, and Health 45, or equivalents.	
255. Advanced Tests and Measurements in Health Education and Physical Education.	(3) S
	Hart
290. Seminar in Physical Education.	(3) W
	Holbrook
292. Research in Physical Education.	(3) A W S
	Hart
293. Current Problems in Physical Education.	(2) S
	Staff
294. Readings in Physical Education.	(2) A W S
	Staff
300. Thesis.	Staff
301. Field Project.	Staff

## COURSES IN RECREATION

230. Principles of Community Recreation.	(3) S
	Staff
233. Organization and Administration of Recreation.	(3) W
	Staff
261. Materials and Methods in Folk and Square Dancing.	(2)
Prerequisite: Phys Ed. 88, 89.	Holbrook
290. Seminar in Recreation.	(3) W
	Holbrook
292. Research in Recreation.	(3) A
	Hart
293. Current Problems in Recreation.	(2) S
	Staff
294. Readings in Recreation.	(2) A W S
	Staff

## Physics

Professors Hales, Marshall; Assistant Professors  
Eastmond, Gardner

### Field: Physics

A student should not seek the master's degree in physics without a thorough undergraduate background represented by the following courses: Physics 121, 122, 123, 131, 141, 142, 143, 151, 152, 161, 162, 163, 171, 172, 173. He may not become a candidate for the master's degree until he has credit in Physics 121, 122, 123, 131, 141, 142, 143, at least. Where the student needs to use ten hours of upper division credit toward the master's degree, those hours may be elected from the following courses: Physics 131, 141, 142, 143, 161, 162, 163, 171, 172, 173. This must be done in conformity with the regulations governing requirements for the degree, in the fore part of the catalog.

### COURSES

201, 202, 203. (Introduction to Modern Physics.)	(3, 3, 3) A W S Eastmond
205, 206, 207. Introduction to Theoretical Physics.	(3, 3, 3) A W S Hales
210, 211, 212. Classical Experiments.	(2, 2, 2) A W S Marshall, Hales, Gardner, Eastmond
231, 232, 233. Spectroscopy.	(2, 2, 2) A W S Eastmond
241, 242, 243. Elementary Quantum Mechanics.	(3, 3, 3) A W S Gardner
291. Readings in Modern Physics.	(1-3) A W S Marshall, Hales, Gardner, Eastmond
295, 296, 297. Seminar.	(1, 1, 1) A W S Marshall, Hales
300. Thesis.	Staff

See Also Math. 221, 222, 223, which apply on a Physics major or minor.

## Political Science

Professor Swensen (chairman); Assistant Professors  
Carr, Grow.

## Field: Political Science

## COURSES IN POLITICAL THEORY

201. Development of Early, Medieval Political Ideas.	(3) A Carr
202. Development of Modern Political Ideas.	(3) W Staff
203. Development of American Political Ideas.	(3) S Carr
204. (Development of Modern Political Constitutions.)	(3) Carr

## COURSES IN POLITICS

210. American Political Problems.	(3) S Grow
215. (Public Opinion and Political Behavior.)	(3) S Staff
220. (Legislative Processes.)	(3) S Grow

## COURSES IN PUBLIC ADMINISTRATION

230. (Comparative Public Administration.)	(3) A Staff
232. State, Municipal Administration.	(3) W Grow
295. Research in Public Administration.	(3) S Staff

## COURSES IN COMPARATIVE GOVERNMENTS

240. (Modern Democratic Government.)	(3) A Staff
241. Development of Totalitarian Government.	(3) A Staff

## COURSES IN INTERNATIONAL LAW AND RELATIONS

269. Analysis of International Organization.	(3) W Staff
270. (Growth of International Relations.)	(3) A Staff

**276. Inter-American System.**(3) W  
Staff

(See also 280.)

## COURSES IN PUBLIC LAW

**280. Analysis of Modern International Law.**(3) S  
Staff**286. (Constitutional Law in 20th Century.)**(3) S  
Staff

## OTHER COURSES

**298. Directed Readings.**(2) A W S  
Staff**300. Thesis for Master's Degree.**

Staff

See also History 206, 284, which may be counted in  
Political Science.**Psychology**Professors Poulson (chairman), Woodruff;  
Associate Professor Allen.Fields: Educational Psychology  
General Psychology

All psychology majors are required to take Psychology 297.

## COURSES

**228. Psychology of Learning.**

(3) S

Prerequisite: At least 5 hours of upper  
Allen  
division Psychology including one course in exper-  
imental.**229. Advanced Educational Psychology.**(3, 3) A W  
Staff

Prerequisite: 11 or equivalent.

**231. Advanced Clinical Psychology: Psychotherapy.**

(2) W

Prerequisite: 130, 139, and consent of instructor. Allen

**253. Advanced Statistical Methods.**

(3) S

Prerequisite: 152.

**255. Advanced Experimental Psychology.**

(2-4) A

Prerequisite: At least five hours of upper  
Allen  
division Psychology including one course in experimen-  
tal Psychology.

280. <b>(Comparative Psychology.)</b> Prerequisite: Five hours upper division Psychology.	(3) S Allen
281. <b>Physiological Psychology.</b> Prerequisite: Zoology 45, and at least five hours of upper-division psychology or the equivalent.	(3) S Allen
286. <b>Human Motivation.</b> Prerequisite: 20 hours of psychology, or consent of the instructor.	(3) S Woodruff
287. <b>(History and Modern Viewpoints.)</b> Prerequisite: Five upper division hours, including at least one course in experimental Psychology	(5) W Poulson
290. <b>Advanced General Psychology.</b> Prerequisites: 11 and at least one experimental course.	(5) W Poulson
297. <b>Graduate Psychology Seminar.</b>	(1-2) A Staff
300. <b>Thesis.</b>	Staff

## Secondary Education

Professor Woolf (chairman);  
 Associate Professors A. J. Clarke (act'g chairman) A. B. Hart;  
 Assistant Professors Bauer, Brailsford, Lewis, Madsen;  
 Mr. Gunn.

Field: Secondary Education

To be eligible to register for graduate courses in Secondary Education one must show adequate background in specific undergraduate course work in the field, and/or experience in the field which would signify preparation for doing acceptable graduate work.

A student who wishes to major in Secondary Education should plan his program in addition to minimum certification requirements. (See General Catalog.) One who wishes to minor in Secondary Education must see the department chairman about required background.

## COURSES

240-50. <b>Research in Secondary Education.</b> Prerequisite: Consent of the instructor.	(1-3) A W S Clarke
260. <b>Improved Methods in Reading for Teachers of Secondary Schools.</b>	(3) W Hart, Bauer

261. Teaching Art in the Secondary Schools.	(3) W	Gunn
262. Teaching English in the Secondary Schools.	(3) S	Hart, Bauer
263. (Teaching Home Economics in the Secondary Schools.)	(3) W	Staff
264. Teaching Mathematics and Science in the Secondary Schools.	(3) W	Brailsford
265. Teaching Music in the Secondary School.	(3) W	Madsen
266. Teaching Social Studies in the Secondary Schools.	(3) S	Caine
267. (Teaching Speech in the Secondary Schools.)	(3) W	Lewis
279. Readings in Development of Secondary Schools and Current Theories and Practices.	(1-3) A	W S Clarke
280. Readings in Secondary School Subjects. Prerequisite: Conference with instructor.	(1-3) A	W S Clarke
284. Advanced Student Teaching for Experienced Teachers. Prerequisite: Field experience plus approval of special committee and chairman of department. Application should be made in advance.	(2-8) A	W S Clarke
291. The High School Curriculum.	(3) W	Clarke
296. The Work of the Secondary School Principal.	(3) W	Clarke, Morrill
297. The Senior High School.	(3) A	Clarke
299. The Junior High School.	(3) S	Clarke
300. Thesis for Master's Degree.		Staff
301. Field Project.		Staff

See also Educational Administration 295, which may be applied to this field.

## Sociology

Professors Ballif (chairman), Bradford;  
Assistant Professors Canning, Payne, Smith

Field: Sociology

### COURSES

205. Advanced Sociological Thought.	(3) W Canning, Smith
206. Advanced Contemporary Sociology.	(3) S Bradford
230. Problems in Race Relations.	(3) A Ballif
290. Seminar.	(2) A Bradford
292. Public Opinion.	(3) S Ballif
296, 298. Special Research Problem.	(1-3) A W S Staff
300. Thesis for Master's Degree.	Staff

## Speech

Professors Morley, T. E. Pardoe (chairman); Assistant Professors Bateman, Clinger, Gledhill, Katherine Pardoe

Fields: Speech (when major or minor is in another department)

Interpretation and Production  
Public Speaking and Radio  
Speech Pathology.

Applicants for the master's degree must present a minimum of thirty quarter hours in accredited undergraduate speech.

Each graduate major must pass an oral test early in the first quarter of residence. The test consists of a ten to fifteen minute program presented before the speech candidates present that quarter, and a committee of the speech faculty. It may be a talk or a prepared reading. If it is a talk, it must demonstrate ability to give a well-organized speech and develop a subject to a proper conclusion.

## COURSES

201. Ancient Rhetoric and Oratory. (3) A  
Bateman

202. History of British Public Speaking. (3) W  
Bateman

203. American Oratory and Public Address. (3) S  
Bateman

210. Seminar — Public Speaking. (2-4) Arr.  
Bateman, Morley

215. Regional Dialects and Linguistic Atlas. (3) S  
Prerequisites: 60, 61 or 62. Pardoe

225, 226, 227. History of Dramatic (3, 3, 3) A W S  
Production. Clinger

228. Stage Design and Lighting. (3) W  
Gledhill

229. Playwriting. (3) W  
Pardoe

230. Seminar in Interpretive Art and Play (1-3) Arr.  
Production. Pardoe, Clinger, Gledhill, K. Pardoe

242. Radio Script Writing. (3) W  
Pardoe

250. Seminar in Radio. (2-4) Arr.  
Pardoe, Bateman

264. Advanced Play Production. (3) W  
Prerequisite: 160, 161. Clinger

281a, 281b, 281c. Seminar in Speech Pathology. (3) A W S  
Prerequisite: 185. Morley

282. Seminar in Methodology of Speech (1-3) Arr.  
Correction. Staff  
Prerequisite: 182.

283. Seminar in Audiology. (1-3) Arr.  
Prerequisite: 184. Staff

286. Anatomy of the Ear and Vocal Organs. (3) W  
Prerequisite: 4 Morley

287. Psychology of Speech. (3) S  
Prerequisites: 4; Psychology 11. Morley

288. Seminar in the Psychophysics of Speech. (1-3) S  
Prerequisite: 4. Staff

300. Thesis for Master's Degree. Staff

## Theology and Religious Philosophy

Associate Professor Berrett;  
Assistant Professor Yarn (chairman)

### COURSES

201, 202, 203. The Principles, Doctrines, and Philosophy of the Church of Jesus Christ of Latter-day Saints.	(2, 2,2) A W S Berrett
207. History of Ancient Philosophy.	(3) A Yarn
208. History of Medieval and Modern Philosophy.	(3) W Yarn
209. History of Christian Thought.	(3) S Yarn
210. Survey of Philosophy.	(2) A Yarn
211. Ethical Theory from Plato to Dewey.	(2) W Yarn
212. Types of Religious Philosophy.	(2) S Yarn
213. Introduction to Logic.	(2) A Yarn
214. The Human Situation, As Found In Twelve Modern Thinkers. Prerequisite: 207, or 208, or Consent of Instructor.	(3) W Yarn
215. Contemporary Philosophy. Prerequisite: 207, or 208, or Consent of Instructor.	(3) S Yarn
300. Thesis.	Staff

## Zoology and Entomology

Professor V. M. Tanner (chairman); Associate Professors Beck, Hayward; Assistant Professors Nicholes, W. W. Tanner.

Fields: Zoology  
Entomology

### COURSES IN ZOOLOGY

210. (Lake Biology)	(3) A
	V. M. Tanner

211. Advanced Ichthyology. (3) W  
V. M. Tanner

212. Literature and Zoology of the Great Basin. (3) S  
V. M. Tanner

213, 214. Natural History of the Amphibians and Reptiles. (3, 3) A W  
W. W. Tanner  
Prerequisites: 159, 160.

215. Advanced Herpetology. (3) S  
W. W. Tanner  
Prerequisites: 159, 160.

216, 217, 218. The Anatomy of the Amphibia. (3, 3, 3) A W S  
W. W. Tanner  
Prerequisite: 160.

219. Geographical Distribution of the Cold-Blooded Vertebrates. (2) A  
V. M. Tanner

220. Advanced Vertebrate Zoology. (3) W  
Hayward  
Prerequisites: 13, 170, 173, or equivalent.

223. Advanced Ornithology. (3-5) S  
Hayward  
Prerequisites: 158 or equivalent.

226. Advanced Mammalogy. (3-5) A  
Hayward  
Prerequisite: 157 or equivalent.

231, 232, 233. Advanced Vertebrate Field Zoology. Arr. A W S  
V. M. Tanner, Hayward, W. W. Tanner  
Prerequisites: 157, 158, 159, 160.

241. Advanced Ecology. (3-5) S  
Hayward  
Prerequisites: 46, 153 or equivalents and a good background in botany.

255, 256, 257. Distributional Study of Parasitic Arthropods. (3, 3, 3) A W S  
Beck

261, 262, 263. Studies in the Distribution of the Invertebrates. (3, 3, 3) A W S  
Beck

264. Advanced Invertebrate Zoology. (3) S  
Beck

265, 266. Special Problems in Invertebrate Zoology. (Arr.) A S  
Beck

267, 268, 269. Body Fluids, Neurology, Endocrinology. (3, 3, 3) A W S  
H. Nicholes

275. History of Biology. (2) W  
V. M. Tanner

298, 299. Graduate Seminar.	(1, 1) A W Staff
300. Thesis for Master's Degree.	Staff

## COURSES IN ENTOMOLOGY

202, 204. Systematic Entomology.	(3, 3) A S V. M. Tanner
206. Insect Morphology.	(3) W V. M. Tanner
207. Study of Insect Genitalia.	(3) S V. M. Tanner
208. Insect Literature and Nomenclature.	(3) A V. M. Tanner
209. History of Entomology. Required of all graduate majors in Entomology.	(2) W V. M. Tanner
300. Thesis for Master's Degree.	Staff









